

EXHIBIT C

Roger McLendon, M.D.

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IN THE UNITED STATES DISTRICT COURT
FOR THE SOUTHERN DISTRICT OF WEST VIRGINIA
AT CHARLESTON

IN RE: ETHICON, INC., :Master File No.
PELVIC REPAIR SYSTEM :2:12-MD-02327
PRODUCTS LIABILITY :
LITIGATION :MDL No. 2327

THIS DOCUMENT RELATES TO :JOSEPH R. GOODWIN
THE CASES LISTED BELOW :U.S. DISTRICT JUDGE

Mullins, et al. v.	2:12-cv-02952
Ethicon, Inc., et al.	
Sprout, et al. v.	2:12-cv-07924
Ethicon, Inc., et al.	
Iquinto v. Ethicon, Inc., et al.	2:12-cv-09765
Daniel, et al. v.	2:13-cv-02565
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Dillon, et al. v.	2:13-cv-02919
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Webb, et al. v.	2:13-cv-04517
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Martinez v. Ethicon, Inc., et al.	2:13-cv-04730
McIntyre, et al. v.	2:13-cv-07283
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Oxley v. Ethicon, Inc., et al.	2:13-cv-10150
Atkins, et al. v.	2:13-cv-11022
Ethicon, Inc., et al.	
Garcia v. Ethicon, Inc., et al.	2:13-cv-14355
Lowe v. Ethicon, Inc., et al.	2:13-cv-14718
Dameron, et al. v.	2:13-cv-14799
Ethicon, Inc., et al.	
Vanbuskir, et al. v.	2:13-cv-16183
Ethicon, Inc., et al.	

SEPTEMBER 29, 2015

ROGER MCLENDON, M.D.

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<p style="text-align: center;">Page 2</p> <p>1 CAPTION CONTINUED: 2 Mullens, et al. v. 2:13-cv-16564 Ethicon, Inc., et al. 3 Shears, et al. v. 2:13-cv-17012 Ethicon, Inc., et al. 4 Javins, et al. v. 2:13-cv-18479 Ethicon, Inc., et al. 5 Barr, et al. v. 2:13-cv-22606 Ethicon, Inc., et al. 6 Lambert v. Ethicon, 2:13-cv-24393 Inc., et al. 7 Cook v. Ethicon, Inc., 2:13-CV-29260 et al. 8 Stevens v. Ethicon, 2:13-cv-29918 Inc., et al. 9 Harmon v. Ethicon, Inc., 2:13-cv-31818 et al. 10 Snodgrass v. Ethicon, 2:13-cv-31881 Inc., et al. 11 Miller v. Ethicon, Inc., 2:13-cv-32627 et al. 12 Matney, et al. v. 2:14-cv-09195 Ethicon, Inc., et al. 13 Jones, et al. v. 2:14-cv-09517 Ethicon, Inc., et al. 14 Humbert v. Ethicon, 2:14-cv-10640 Inc., et al. 15 Gillum, et al. v. 2:14-cv-12756 Ethicon, Inc., et al. 16 Whisner, et al. v. 2:14-cv-13023 Ethicon, Inc., et al. 17 Tomblin v. Ethicon, 2:14-cv-14664 Inc., et al. 18 Schepleng v. Ethicon, 2:14-cv-16061 Inc., et al. 19 Tyler, et al. v. 2:14-cv-19110 Ethicon, Inc., et al. 20 Kelly, et al. v. 2:14-cv-22079 Ethicon, Inc., et al. 21 Lundell v. Ethicon, 2:14-cv-24911 Inc., et al. 22 Cheshire, et al. v. 2:14-cv-24999 Ethicon, Inc., et al. 23 Burgoyne, et al., v. 2:14-cv-28620 Ethicon, Inc., et al. 24 Bennett, et al., v. 2:14-cv-29624 Ethicon, Inc., et al. 25</p>	<p style="text-align: center;">Page 4</p> <p>1 APPEARANCES: 2 3 ON BEHALF OF THE PLAINTIFFS: 4 THE MONSOUR LAW FIRM 404 North Green Street 4 Longview, Texas 75601 903-758-5757 5 BY: DOUGLAS C. MONSOUR, ESQ. KATY KROTTINGER, ESQ. 6 CHAPMAN BAUERLEIN, ESQ. (Via Telephone) 7 doug@monsourlawfirm.com katy@monsourlawfirm.com 8 chapman@monsourlawfirm.com 9 10 ON BEHALF OF THE DEFENDANTS: 11 TUCKER ELLIS LLP 950 Main Avenue, Suite 1100 11 Cleveland, Ohio 44113 216-696-4634 12 BY: S. PETER VOUDOURIS, ESQ. peter.voudouris@tuckerellis.com 13 and 14 15 THOMAS COMBS & SPANN, PLLC 300 Summers Street, Suite 1380 16 Charleston, West Virginia 25301 304-414-1807 17 BY: DAVID B. THOMAS, ESQ. dthomas@tcspllc.com 18 19 20 ALSO PRESENT: Len Harris, Videographer 21 22 23 24 25</p>
<p style="text-align: center;">Page 3</p> <p>1 - - - 2 SEPTEMBER 29, 2015 3 - - - 4 5 Videotaped Deposition of ROGER McLENDON, 6 M.D., called for examination, taken pursuant 7 to the Federal Rules of Civil Procedure of the 8 United States District Courts pertaining to the 9 taking of depositions, taken before KAREN K. KIDWELL, 10 RMR, CRR, Notary Public for the State of North 11 Carolina, at Duke University Medical Center, Duke 12 Clinics/South, 200 Trent Drive, Room 3114, Durham, 13 North Carolina, on September 29, 2015, at 2:02 p.m. 14 15 16 17 18 19 20 21 22 23 24 25</p>	<p style="text-align: center;">Page 5</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25</p> <p style="text-align: center;">INDEX</p> <p>1 2 WITNESS/EXAMINATION 3 ROGER McLENDON, M.D. 4 By Mr. Monsour 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25</p> <p style="text-align: center;">(No exhibits marked.)</p>

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<p>1 TUESDAY, SEPTEMBER 29, 2015, DURHAM, NORTH CAROLINA</p> <p>2 PROCEEDINGS</p> <p>3 -oOo-</p> <p>4 VIDEOGRAPHER: We are now on the record.</p> <p>5 My name is Len Harris. I am a videographer for</p> <p>6 Golkow Technologies. Today's date is</p> <p>7 September 29th, 2015, and the time is</p> <p>8 approximately 2:02 p.m.</p> <p>9 This video deposition is being held in</p> <p>10 Durham, North Carolina in regards to Ethicon,</p> <p>11 Incorporated, Pelvic Repair System Products</p> <p>12 Liability Litigation. This case relates to</p> <p>13 Mullins, et al, versus Ethicon, Incorporated, et</p> <p>14 al. Case Number is 2:12-CV-02952. Master File</p> <p>15 Number is 2:12-MD-02327. MDL Number is 2327.</p> <p>16 This case is being held in the United States</p> <p>17 District Court for the Southern District of West</p> <p>18 Virginia, Charleston Division.</p> <p>19 The deponent is Roger McLendon, M.D.</p> <p>20 Counsel, would you please identify</p> <p>21 yourselves.</p> <p>22 MR. MONSOUR: Doug Monsour for the</p> <p>23 plaintiff, along with Katy Krottinger and</p> <p>24 Chapman Bauerlein.</p> <p>25 MR. VOUDOURIS: Peter Voudouris on behalf</p>	<p>1 me?</p> <p>2 A. Yes, sir.</p> <p>3 Q. Okay. Dr. McLendon, what kind of a doctor</p> <p>4 are you?</p> <p>5 A. I'm a board-certified anatomic pathologist</p> <p>6 and neuropathologist.</p> <p>7 Q. On a typical given day, what do you do?</p> <p>8 A. My diagnostic clinical responsibilities</p> <p>9 are diagnostic neuropathology.</p> <p>10 Q. And what is -- for those of us that don't</p> <p>11 practice neuropathology, tell me what a</p> <p>12 neuropathologist does.</p> <p>13 A. Neuropathology is the study of the brain,</p> <p>14 the spinal cord, its nerves, the coverings of these</p> <p>15 tissues as well as their end targets. So my job is</p> <p>16 to examine tissues, whether they be nerve or spinal</p> <p>17 cord or brain tissue for evidence of disease. I also</p> <p>18 look at muscle and peripheral nerve.</p> <p>19 Q. Do you -- have you ever been a pathologist</p> <p>20 that's looked at specimens from the vaginal area?</p> <p>21 A. My job as neuropathology is to examine</p> <p>22 nerves and tissues wherever they may be. I have many</p> <p>23 years ago routinely looked at vaginal tissue, and now</p> <p>24 I will look at tissues for nerve damage, diseases of</p> <p>25 nerve, wherever they may come from in the body.</p>
<p style="text-align: center;">Page 7</p> <p>1 of Defendant Ethicon.</p> <p>2 MR. THOMAS: David Thomas for Defendants.</p> <p>3 VIDEOGRAPHER: The court reporter is Karen</p> <p>4 Kidwell and will now swear in the witness.</p> <p>5 ROGER MCLENDON, M.D.</p> <p>6 being first duly sworn, testified as follows:</p> <p>7 VIDEOGRAPHER: Please continue.</p> <p>8 EXAMINATION</p> <p>9 BY MR. MONSOUR:</p> <p>10 Q. All right. Good afternoon, Dr. McLendon.</p> <p>11 How are you?</p> <p>12 A. I'm well. Good afternoon, sir.</p> <p>13 Q. I'm going to try and get through this as</p> <p>14 quickly as I can. It's going to take a little while.</p> <p>15 What I would tell you is if you need to take a break</p> <p>16 or something, I can't see you, so just speak up or</p> <p>17 tell Dave or Peter that you want to take a break, and</p> <p>18 it's not a big deal. I would just ask that you</p> <p>19 finish answering my question. Is that okay?</p> <p>20 A. Yes, sir.</p> <p>21 Q. And then also, if I ask you something you</p> <p>22 don't understand, just ask me to rephrase it, and</p> <p>23 I'll do that. Okay?</p> <p>24 A. Yes, sir. Can you hear me all right?</p> <p>25 Q. Yeah, I can hear you fine. Can you hear</p>	<p style="text-align: center;">Page 9</p> <p>1 Q. Okay. So -- so if I understand you right,</p> <p>2 as a neuropathologist, you look at nerves all over</p> <p>3 the body, wherever they may be?</p> <p>4 A. That's correct.</p> <p>5 Q. Okay. Do you -- have you ever looked at a</p> <p>6 transvaginal mesh specimen?</p> <p>7 A. Before? No, sir.</p> <p>8 Q. I didn't hear you.</p> <p>9 A. No, sir.</p> <p>10 Q. Have you ever looked at a TVT specimen?</p> <p>11 A. Only as my job as the Director of the</p> <p>12 Surgical Pathology Archives. I'm the Director of</p> <p>13 Surgical Pathology here, and a few of these slings</p> <p>14 have -- are stored. And as the keeper of the</p> <p>15 archives, I am responsible for dispensing them, so I</p> <p>16 have visually looked at one or two.</p> <p>17 Q. Okay. And when you talk about visually</p> <p>18 looking at them, I'm talking about as a</p> <p>19 neuropathologist actually examining them with the</p> <p>20 microscope or however you do it, have you actually</p> <p>21 looked at them that way?</p> <p>22 A. No, sir.</p> <p>23 Q. Is it fair to say that -- with that in</p> <p>24 mind, is it fair to say that before you were retained</p> <p>25 by Ethicon, that you really had no knowledge</p>

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<p>1 concerning looking at TVT specimens that had been 2 removed from women?</p> <p>3 A. I had no concern about that. I routinely 4 look at -- at nerves that have been injured in the 5 peripheral nervous system or -- and looked at normal 6 healing processes, so I have fairly extensive 7 experience of looking at nervous tissue from all over 8 the body.</p> <p>9 Q. No, I understand that. I understand that. 10 I guess what I'm trying to get at, Dr. McLendon, is 11 before being retained by Ethicon, had you ever been 12 the pathologist that was called upon to examine a 13 removed specimen involving a woman's vaginal tissue 14 and transvaginal mesh?</p> <p>15 A. Not to my recollection.</p> <p>16 Q. Do -- are you here basically to talk 17 primarily about how the nerves function or don't 18 function in -- when they are entrapped in the mesh?</p> <p>19 MR. VOUDOURIS: Objection. Form.</p> <p>20 THE WITNESS: I -- I'm here to talk about 21 the neural pathology of the tissues that I've 22 examined, and I'm also here to talk about the 23 scientific method that Dr. Iakovlev used in 24 examining these tissues in coming to his 25 conclusions.</p>	<p>1 BY MR. MONSOUR: 2 Q. I understand. I'm asking you, though. Do 3 you believe that polypropylene, once it's implanted 4 in the human body, would degrade?</p> <p>5 MR. VOUDOURIS: Objection. Asked and 6 answered, Counselor. He told you he's not going 7 to be opining on that subject.</p> <p>8 MR. MONSOUR: He can tell me everything he 9 wants. I'm asking him the question. I'm asking 10 him his opinion.</p> <p>11 MR. VOUDOURIS: Well, if he's not going to 12 have an opinion about it at trial, that's what 13 he's trying to tell you.</p> <p>14 MR. MONSOUR: It doesn't matter. I'm 15 asking my question. I want him to answer it.</p> <p>16 MR. VOUDOURIS: Well, asked and answered 17 Go ahead one more time.</p> <p>18 THE WITNESS: Yeah, I haven't been asked 19 to form an opinion on that. I haven't formed an 20 opinion on that. And I won't be offering one at 21 trial.</p> <p>22 BY MR. MONSOUR: 23 Q. Do you believe most likely that 24 polypropylene would degrade once it is implanted in 25 the human body?</p>
<p style="text-align: center;">Page 11</p> <p>1 BY MR. MONSOUR: 2 Q. Okay. Let me ask you a couple of other 3 questions. Have you ever -- have you ever looked at 4 polypropylene when it has been implanted in the human 5 body and then it has been removed surgically? Have 6 you ever looked at any specimens before that involve 7 polypropylene? 8 A. I've looked at a lot of foreign bodies, 9 but specifically whether it involved polypropylene, 10 I'm not sure. 11 Q. Okay. Let me ask you this, when 12 polypropylene is implanted in the human body, does it 13 degrade? 14 A. I have no idea. 15 MR. VOUDOURIS: Objection. 16 BY MR. MONSOUR: 17 Q. I didn't hear you? 18 A. I have no idea. 19 Q. Do you believe that it would degrade? 20 MR. VOUDOURIS: Objection. Beyond the 21 scope. 22 THE WITNESS: I haven't formed an opinion 23 on that. I haven't been asked to and won't be 24 offering an opinion on that.</p>	<p style="text-align: center;">Page 13</p> <p>1 MR. VOUDOURIS: Objection. Asked and 2 answered. 3 THE WITNESS: I haven't formed an opinion 4 on that, and I won't be offering one at trial. 5 BY MR. MONSOUR: 6 Q. Well, I know you haven't formed an 7 opinion, but I'm asking you, most likely, with your 8 medical background, do you believe it probably would? 9 MR. VOUDOURIS: Objection. Asked and 10 answered. 11 THE WITNESS: I haven't formed an opinion 12 on that. 13 BY MR. MONSOUR: 14 Q. Do you -- do you believe that once these 15 transvaginal mesh devices are implanted in the human 16 body that a process of contraction happens? 17 MR. VOUDOURIS: Objection. Beyond the 18 scope. 19 THE WITNESS: I don't know anything about 20 the chemical properties of polypropylene. I 21 haven't formed an opinion. I haven't done any 22 research on it. I -- I won't be offering one at 23 trial. 24 BY MR. MONSOUR: 25 Q. I'm talking more -- not necessarily about</p>

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<p>1 the chemical properties. I'm talking about the 2 integration of scar tissue into the TVT. Do you 3 believe that results in a mesh that is entrapped 4 through the scar tissue?</p> <p>5 MR. VOUDOURIS: Objection. Asked and 6 answered. Go ahead.</p> <p>7 THE WITNESS: It's my understanding that 8 there are others that will be offering an 9 opinion on this. I have not formed an opinion 10 on that and won't be offering one at trial.</p> <p>11 BY MR. MONSOUR:</p> <p>12 Q. Do you believe that fibrous tissue grows 13 into these implants once they're implanted?</p> <p>14 MR. VOUDOURIS: Objection. Beyond the 15 scope.</p> <p>16 THE WITNESS: It's clear from looking at 17 the specimens that smooth muscle fibroblast, 18 blood vessels grow in and amongst the 19 polypropylene implants.</p> <p>20 BY MR. MONSOUR:</p> <p>21 Q. Is that scar tissue?</p> <p>22 A. That's scar tissue. That's a healing 23 process. It's the body's reaction to this 24 polypropylene implant.</p> <p>25 Q. All right. So if I understand this right,</p>	<p>1 about -- of scar tissue in and around these 2 meshes, but none of them that conclusively prove 3 that there's any contraction. There's none that 4 conclusively prove that there's any abnormal 5 response of the body to the implanted mesh.</p> <p>6 BY MR. MONSOUR:</p> <p>7 Q. All right. But I'm asking you your 8 opinion. Do you believe that the scar tissue results 9 in the mesh contracting?</p> <p>10 MR. VOUDOURIS: Objection. Asked and 11 answered. Beyond the scope.</p> <p>12 THE WITNESS: My belief comes from the 13 scientific method in reviewing the tissues. The 14 scientific method does not prove any evidence of 15 contraction or change.</p> <p>16 BY MR. MONSOUR:</p> <p>17 Q. So does that mean you believe it does not 18 contract?</p> <p>19 A. I have not been convinced from reading the 20 papers or reviewing the slides that there's any 21 contractions or abnormalities other than the body 22 having any other incision at this site.</p> <p>23 Q. Okay. Have you ever looked at a -- have 24 you only looked at slides involving TVT, or have you 25 looked at any slides involving pelvic organ prolapse</p>
<p style="text-align: center;">Page 15</p> <p>1 when a TVT is implanted in the human body, scar 2 tissue develops around and within the mesh, true?</p> <p>3 MR. VOUDOURIS: Objection.</p> <p>4 THE WITNESS: The body does react to the 5 foreign body and does fulfill its mission to 6 react to this polypropylene to -- to cure the 7 introduced wound of a -- of the tissue -- of the 8 space occupying polypropylene.</p> <p>9 BY MR. MONSOUR:</p> <p>10 Q. Does this scar tissue formation result in 11 a contraction of the mesh?</p> <p>12 MR. VOUDOURIS: Objection.</p> <p>13 THE WITNESS: I'm not sure, sir. I 14 haven't studied that.</p> <p>15 BY MR. MONSOUR:</p> <p>16 Q. Well, you've read several articles about 17 mesh once it's implanted in the human body, correct?</p> <p>18 A. That's correct.</p> <p>19 Q. Do you believe, therefore, that 20 contraction does take place?</p> <p>21 MR. VOUDOURIS: Objection. Asked and 22 answered.</p> <p>23 THE WITNESS: I haven't seen any studies 24 to say whether or not that it does happen. 25 There's a lot of observational studies, reports</p>	<p style="text-align: center;">Page 17</p> <p>1 implants?</p> <p>2 A. I haven't looked at any tissues regarding 3 pelvic organ prolapse. The only slides I've looked 4 at belong to the five or six cases that were offered 5 to me on whole slide image as well as glass slides, 6 and I believe they were all TVT meshes.</p> <p>7 Q. Okay. If the mesh -- if the mesh does 8 contract when the scar tissue forms, is that 9 something that you believe you should be aware of?</p> <p>10 MR. VOUDOURIS: Objection.</p> <p>11 THE WITNESS: Are you giving a 12 hypothetical?</p> <p>13 BY MR. MONSOUR:</p> <p>14 Q. I'm asking you a question.</p> <p>15 MR. VOUDOURIS: He asked you a question.</p> <p>16 MR. MONSOUR: Well, I'm the questioner so 17 ...</p> <p>18 MR. VOUDOURIS: Well, I understand that, 19 Doug, but at the beginning of the deposition, 20 you told the Doctor that if he didn't understand 21 one of your questions, he was to speak up. And 22 he just did.</p> <p>23 BY MR. MONSOUR:</p> <p>24 Q. Okay. Do you believe that if the mesh 25 does contract as a result of scar tissue formation,</p>

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<p>1 that that's something that you should be aware of?</p> <p>2 MR. VOUDOURIS: Objection. Form,</p> <p>3 foundation.</p> <p>4 THE WITNESS: I believe that the normal</p> <p>5 healing process is something that I'm aware of,</p> <p>6 and contraction is a part of the normal healing</p> <p>7 process, and it makes no difference to me</p> <p>8 whether polypropylene is involved or not. It</p> <p>9 is -- the tissues I looked at were normal</p> <p>10 healing process, and so I accepted them for what</p> <p>11 they were.</p> <p>12 BY MR. MONSOUR:</p> <p>13 Q. When scar tissue forms, does it contain</p> <p>14 nerves?</p> <p>15 A. It can contain nerves, yes, not</p> <p>16 necessarily.</p> <p>17 Q. Are you -- are you generally aware of --</p> <p>18 and I'm just trying to get an idea of what you know</p> <p>19 about this so just explain it the best way you can.</p> <p>20 Are you generally aware of the complaints that women</p> <p>21 that have TTVT implanted in them, are you generally</p> <p>22 aware of the complaints that they have?</p> <p>23 MR. VOUDOURIS: Objection. Form.</p> <p>24 THE WITNESS: I understand that they feel</p> <p>25 pain. I'm not -- I'm not -- I haven't been</p>	<p>1 question is simply this, is it possible that a TTVT,</p> <p>2 once it's implanted in a woman, could cause her pain?</p> <p>3 MR. VOUDOURIS: Objection. Form,</p> <p>4 foundation.</p> <p>5 THE WITNESS: The -- the question is so</p> <p>6 broad. You said "implanted." Implanted</p> <p>7 properly, implanted improperly or implanted with</p> <p>8 what types of surgery? There's a lot of</p> <p>9 variables that just haven't been studied.</p> <p>10 I've looked at Dr. Iakovlev's papers and</p> <p>11 just can't come to -- there's so many variables</p> <p>12 that are in there. I agree with the paper of</p> <p>13 Dr. Blaivas, his Nature paper, that just says</p> <p>14 there's just so much we don't understand.</p> <p>15 BY MR. MONSOUR:</p> <p>16 Q. Well, let me -- let me ask my question</p> <p>17 again. Is it possible that a properly implanted TTVT</p> <p>18 sling could cause a woman pain?</p> <p>19 MR. VOUDOURIS: Objection. Form,</p> <p>20 foundation.</p> <p>21 THE WITNESS: It is possible that a -- and</p> <p>22 as I have said before, it is possible that a</p> <p>23 woman with a TTVT sling could experience a pain</p> <p>24 syndrome. We don't understand the issues or the</p> <p>25 causality of the pain.</p>
<p style="text-align: center;">Page 19</p> <p>1 informed of the type or severity of pain or the</p> <p>2 localization of the pain.</p> <p>3 BY MR. MONSOUR:</p> <p>4 Q. Do you believe, as a neuropathologist,</p> <p>5 that a TTVT sling, once it's implanted, do you believe</p> <p>6 that it could somehow cause pain in a woman?</p> <p>7 MR. VOUDOURIS: Objection. Form,</p> <p>8 foundation.</p> <p>9 THE WITNESS: That is a very difficult</p> <p>10 problem in -- in pain management science. There</p> <p>11 are some people that have just an abnormal</p> <p>12 response to pain regardless of what type of</p> <p>13 surgery they have. There are just some that are</p> <p>14 going to have pain.</p> <p>15 We don't understand the cause -- causes of</p> <p>16 it. The pain continues regardless if they have</p> <p>17 nerve breaks, if they have anesthetic blockades.</p> <p>18 It's clear that there are certain people that</p> <p>19 are just predisposed to hurt related to surgery.</p> <p>20 And you can't predict which ones they are</p> <p>21 because we don't know what the pathophysiological</p> <p>22 mechanisms for their pain mechanisms are.</p> <p>23 BY MR. MONSOUR:</p> <p>24 Q. Okay. I appreciate that response. But my</p> <p>25 question is a little more simple than that. My</p>	<p style="text-align: center;">Page 21</p> <p>1 BY MR. MONSOUR:</p> <p>2 Q. Okay. Let me ask -- let me ask the</p> <p>3 question another way. Is it possible that a woman</p> <p>4 would have a TTVT sling implanted in her and it was</p> <p>5 done properly and that nerves would grow into the TTVT</p> <p>6 sling? Is that possible?</p> <p>7 MR. VOUDOURIS: Objection. Form,</p> <p>8 foundation.</p> <p>9 THE WITNESS: All right. It is possible</p> <p>10 that the nerve will grow into the scar tissue</p> <p>11 around the sling. It won't grow into the</p> <p>12 polypropylene sling.</p> <p>13 BY MR. MONSOUR:</p> <p>14 Q. Is it possible that if a nerve grows into</p> <p>15 the scar tissue around the TTVT sling, that through</p> <p>16 the process of contraction, that nerve could be</p> <p>17 squeezed and cause pain?</p> <p>18 MR. VOUDOURIS: Objection. Form,</p> <p>19 foundation.</p> <p>20 THE WITNESS: Ahh. You ask a question</p> <p>21 about what types of nerves can grow into this.</p> <p>22 And this, with the smooth muscle with the</p> <p>23 fibroblast, the vast majority of those nerves</p> <p>24 are going to be autonomic nerves or nerves that</p> <p>25 control involuntary -- involuntary contracture.</p>

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<p>1 Blood vessels, small arteries that grow into it 2 will also carry their own innervation, and 3 that's all autonomic. It's all involuntary. 4 It's -- it's clear that from the S100 5 stains I've looked at that there are nerve 6 fibers in and amongst the polypropylene fibers. 7 And it is clear that the vast, vast, vast 8 majority of them are innervating smooth muscle 9 from the own stains that Dr. Iakovlev provided.</p> <p>10 BY MR. MONSOUR:</p> <p>11 Q. Okay. Let me ask my question again 12 because I don't think you answered.</p> <p>13 Is it possible that a nerve could grow 14 into the scar tissue around the TVT mesh that's 15 implanted properly in a woman and that that nerve 16 could be squeezed by contraction and cause the woman 17 pain? Is it possible?</p> <p>18 MR. VOUDOURIS: Objection. Form, 19 foundation.</p> <p>20 THE WITNESS: As I said, the autonomic 21 nerves -- and I -- I didn't say it clearly, and 22 I apologize. Thank you for giving me the 23 opportunity to clarify.</p> <p>24 The autonomic nerves will carry signals to 25 contract the smooth muscle, to contract blood</p>	<p>1 long term?</p> <p>2 MR. VOUDOURIS: Objection. Form, 3 foundation.</p> <p>4 THE WITNESS: The possibilities -- what 5 you're asking is a scientific question. The 6 science of it has not been analyzed, and it 7 certainly hasn't been done by Dr. Iakovlev's 8 studies or any of the studies that I've seen 9 from his group. So the answer to that is 10 it's -- it's unknown and unknowable.</p> <p>11 There are a lot of other theories that do 12 explain why people experience pain after this 13 surgery. Even after they've had nerve sections, 14 they still have phantom pain.</p> <p>15 BY MR. MONSOUR:</p> <p>16 Q. Now, you said there's several different 17 types of nerve fibers, correct?</p> <p>18 A. That's correct.</p> <p>19 Q. And certain types carry painful 20 sensations, correct?</p> <p>21 A. The A delta and the C fibers transmit 22 pain. They do.</p> <p>23 Q. If an A delta or a C fiber was in the scar 24 tissue around a TVT that was properly implanted and 25 the scar tissue around it contracted, could that</p>
<p>1 vessels. Those will not carry any pain -- pain 2 signals back.</p> <p>3 I didn't make it clear that pain fibers 4 are a specific subtype of nerve fiber that 5 scientists call the A delta and the C fibers. 6 The C fibers are slow pain, the A delta fibers 7 are sharp pain. There's a lot of different 8 things that go on about this. And it is -- it 9 is important to be able to characterize the 10 nerve fibers. And the evidence that I saw from 11 the slides were not able to characterize sensory 12 pain fibers.</p> <p>13 So is it possible for a pain fiber to grow 14 into a scar and cause pain before it 15 degenerates? I -- I suppose yes. But I think 16 that you're -- what you're talking about is 17 evident is a process where the pain fibers may 18 or may not enter, but if they do, they're 19 short-term and they degenerate. There's 20 numbness, in other words. Vast majority of 21 scars are numb.</p> <p>22 BY MR. MONSOUR:</p> <p>23 Q. Okay. Is it possible that there could be 24 nerves that would grow in and around the scar tissue 25 around a properly placed TVT that could generate pain</p>	<p>1 cause a woman pain?</p> <p>2 MR. VOUDOURIS: Objection. Form, 3 foundation.</p> <p>4 THE WITNESS: That -- that's a lot of ifs 5 for -- in your hypothetical. And I believe I've 6 said that the science of that has not been 7 proven.</p> <p>8 BY MR. MONSOUR:</p> <p>9 Q. The science of what has not been proven?</p> <p>10 A. The question you just asked.</p> <p>11 Q. Which part of it is unproven?</p> <p>12 A. That was the question you asked. And I 13 answered it, sir.</p> <p>14 Q. No, no, no. You just said the science is 15 unproven. I'm asking you which part is unproven?</p> <p>16 A. The -- the distribution of A delta and 17 C fibers is unknown in scar tissue, of the vaginal 18 meshes, around the vaginal meshes. And whether or 19 not they transmit pain is unknown in the scar tissue 20 around the TVT meshes. The studies just haven't been 21 done.</p> <p>22 Q. Well, let me ask you this, in most 23 implants that are implanted into the -- have you ever 24 looked at abdominal mesh implants?</p> <p>25 A. No, sir.</p>

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<p>1 Q. Would -- are you aware of whether or not 2 A delta or C fibers grow into the scar tissue around 3 abdominal mesh implants?</p> <p>4 A. To my knowledge, that study has not been 5 done. The science is just not there.</p> <p>6 Q. So how do -- where would you expect the 7 A delta and C fibers -- where would you expect them 8 to form, around what type of an implant?</p> <p>9 MR. VOUDOURIS: Objection. Form, 10 foundation.</p> <p>11 THE WITNESS: I don't know if I said that 12 they would form. I believe what I said was that 13 the A delta and C fibers may grow as -- grow 14 back. But the vast majority of the -- of the 15 fibers that we see are the autonomic fibers 16 transmitting signals to the smooth muscle, to 17 the blood vessels, to the glands, all the tissue 18 around the -- the vaginal tissue that has been 19 scarred.</p> <p>20 I think that was a jump in logic, if I may 21 say, in saying that I said that the A delta and 22 C fibers grow back in every scar. I think I 23 said that every scar -- most scars are numb. 24 They carry no sensation; pain, temperature, 25 touch, anything.</p>	<p>1 Q. Okay. How did that happen? How did the 2 scar cause pain or how was it associated with pain?</p> <p>3 A. And that's what I -- I was saying, that 4 it's unusual for certain people to have pain after 5 post-operative surgery, chronic post-operative 6 surgical pain, and we don't really know the 7 mechanisms associated with that. That even -- I 8 mean, soldiers who have their legs amputated will 9 often feel pain in their toes. We just don't 10 understand the -- the reason for that.</p> <p>11 Q. Okay. The -- the pain -- well, let me 12 start again.</p> <p>13 If you don't know how it happens, how can 14 you tell me that Dr. Iakovlev is wrong?</p> <p>15 A. That's my biggest problem with 16 Dr. Iakovlev is his scientific methodology. He's got 17 to be able to compare his vaginal sling tissue of 18 women who have pain against woman who have had their 19 vaginal slings taken out with no pain.</p> <p>20 I can -- I can draw a line for you on the 21 wall up here and tell you it's an inch. But until 22 you compare it to a known control, you don't know if 23 it's an inch or not. I've got to have a known 24 control to compare his studies against.</p> <p>25 There are some studies that -- that</p>
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<p>1 BY MR. MONSOUR:</p> <p>2 Q. Have you ever seen a scar tissue that 3 did -- did cause pain?</p> <p>4 MR. VOUDOURIS: Objection. Form, 5 foundation.</p> <p>6 MR. MONSOUR: Basis?</p> <p>7 THE WITNESS: Asis?</p> <p>8 MR. MONSOUR: Basis?</p> <p>9 THE WITNESS: Pardon?</p> <p>10 MR. MONSOUR: Basis for your objection?</p> <p>11 THE WITNESS: Oh. I'm sorry. I don't 12 understand what that means.</p> <p>13 MR. VOUDOURIS: Oh, I just said form and 14 foundation.</p> <p>15 MR. MONSOUR: And I asked you the basis --</p> <p>16 THE WITNESS: Oh, basis.</p> <p>17 MR. MONSOUR: -- for your objection so if 18 I need to, I can fix it.</p> <p>19 MR. VOUDOURIS: Why don't you go ahead and 20 ask your question again?</p> <p>21 BY MR. MONSOUR:</p> <p>22 Q. Have you ever seen a scar tissue that has 23 caused a woman or anyone pain?</p> <p>24 A. I have seen scars that are associated with 25 pain, of course.</p>	<p>1 actually look at vaginal mesh of women who have had 2 their meshes taken out for urinary incontinence or 3 urinary voiding dysfunction versus those who have 4 had -- had pain issues. And unfortunately, they 5 didn't look at nerve, but they looked at other 6 reasons. They looked at scar tissue. They looked at 7 inflammation. And none of them were associated with 8 pain in those women.</p> <p>9 In fact, the women who had no pain in 10 voiding dysfunction, and I believe this was the Hill 11 study, had more inflammation than the patients who 12 had pain. They had -- they had as much scar as the 13 women who had pain. Scar, fibrous tissue, 14 inflammation just aren't the causes, and Dr. Iakovlev 15 continues to persist in saying it is.</p> <p>16 Q. Well, what could be the cause of these 17 women's pain that have TTV implanted in them?</p> <p>18 MR. VOUDOURIS: Objection. Form.</p> <p>19 BY MR. MONSOUR:</p> <p>20 Q. But let -- let me ask it this way, when 21 these women that have TTV implanted in them say that 22 they are in pain, do you believe they are lying?</p> <p>23 A. Oh, no.</p> <p>24 Q. Okay. So you believe when these women say 25 they're suffering from pain from the TTV, that they</p>

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<p>1 are telling the truth?</p> <p>2 A. I believe they are experiencing pain that</p> <p>3 is referenced to that area of the body just as those</p> <p>4 soldiers who have had above-the-knee amputations say</p> <p>5 they are feeling pain in their toes. They don't</p> <p>6 understand the causes of chronic post-operative</p> <p>7 surgical pain. We just don't understand it.</p> <p>8 Q. Okay. Let me see if I understand this</p> <p>9 correctly. When women that have TVT implanted in</p> <p>10 them complain that they are having pain, you believe</p> <p>11 them, you just don't know exactly how the pain is</p> <p>12 being caused?</p> <p>13 MR. VOUDOURIS: Objection.</p> <p>14 THE WITNESS: Neither I nor a number of</p> <p>15 pain scientists and anesthesiologists and pain</p> <p>16 medicine docs who study this area extensively.</p> <p>17 They have looked to find it. And it's been</p> <p>18 shown that Dr. Iakovlev's theories are just not</p> <p>19 true.</p> <p>20 BY MR. MONSOUR:</p> <p>21 Q. Okay. Hold on. And remember, I read your</p> <p>22 report. I've never met you. You've got a lot that</p> <p>23 you know. I don't know what you know. So I'm just</p> <p>24 trying to get the basis of your opinion so I can</p> <p>25 understand what you're saying.</p>	<p>1 THE WITNESS: And -- and that -- I will</p> <p>2 agree with your -- with your summary of my</p> <p>3 testimony. And I will add that it's also based</p> <p>4 in scientific literature.</p> <p>5 BY MR. MONSOUR:</p> <p>6 Q. And what you mean when you say it's based</p> <p>7 in scientific literature is you're saying that how</p> <p>8 the pain -- you believe that the pain is there. You</p> <p>9 just don't know how it's being caused with regard to</p> <p>10 the nerves?</p> <p>11 A. With regard --</p> <p>12 Q. Is that right?</p> <p>13 A. Let me -- let me see if I can simplify</p> <p>14 this as much as possible but not more so. And that</p> <p>15 is that pain is only perceived in the brain. And so</p> <p>16 there are a lot of potential areas along the nerve to</p> <p>17 the spinal cord to the brain that can be altered and</p> <p>18 still result in pain perception in the vagina. And</p> <p>19 that's why I say we don't know what is causing the</p> <p>20 pain.</p> <p>21 The woman had surgery in this location.</p> <p>22 And you say one plus one equals two, but I'm here to</p> <p>23 tell you that that's not true, that there have been</p> <p>24 studies that suggest that this one plus one actually</p> <p>25 is a lot of other ones added to it. And you have to</p>
<p>1 A. Yes, sir.</p> <p>2 Q. And so please -- and sometimes if I'm</p> <p>3 trying to clarify something, it's because, A, your</p> <p>4 answer to me wasn't clear, or, B, I just didn't</p> <p>5 understand it. So I want to make sure that I'm</p> <p>6 crystal clear.</p> <p>7 A. Thank you. I apologize.</p> <p>8 Q. No, that's okay. That's okay. I mean,</p> <p>9 you -- you do pathology every day and I do not. And</p> <p>10 so some of these things that you are intimately</p> <p>11 familiar with, I am not. So you just kind of have to</p> <p>12 bear with me a little bit. Okay?</p> <p>13 A. Yes, sir.</p> <p>14 Q. So here's what I want to see if I -- if I</p> <p>15 understand. And I use simple terms. I don't use</p> <p>16 medical terms. So understand that, too.</p> <p>17 A. I will -- I will try to also use as simple</p> <p>18 as I can, sir.</p> <p>19 Q. Okay. The women that have TVT implanted</p> <p>20 in them that complain that it is causing them pain,</p> <p>21 you believe that those women are being truthful and</p> <p>22 that they do feel pain. You're just not sure exactly</p> <p>23 how the pain is being caused. Is that a fair</p> <p>24 statement?</p> <p>25 MR. VOUDOURIS: Objection.</p>	<p>1 examine each individual point along the way in order</p> <p>2 to add up to the right conclusion. And</p> <p>3 Dr. Iakovlev's, his mathematics and his histologic</p> <p>4 studies are just too simple.</p> <p>5 Q. Okay. Let me -- let me continue to try</p> <p>6 and clarify what I understand with you.</p> <p>7 Do you believe that if a woman is</p> <p>8 experiencing pain from her TVT implant, that most</p> <p>9 likely, the pain generator comes from the area in the</p> <p>10 immediate vicinity of the TVT?</p> <p>11 MR. VOUDOURIS: Objection. Form.</p> <p>12 THE WITNESS: That's -- that's what I'm</p> <p>13 trying to clarify, that that is not a -- a true</p> <p>14 conclusion. Acutely, immediately</p> <p>15 post-operatively, if she has pain, then that is</p> <p>16 a true statement. But when the nerves around</p> <p>17 the area of insertion are -- are cut, then they</p> <p>18 degenerate backwards sometimes all the way back</p> <p>19 to the spinal cord.</p> <p>20 Acute pain is localized. Chronic pain</p> <p>21 somewhere along the multiple steps going back to</p> <p>22 the spinal cord and even going up into the</p> <p>23 brain. That's -- that's the simple part is --</p> <p>24 is when you cut the nerve, the nerve degenerates</p> <p>25 backwards all the way to the spinal cord many</p>

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<p>1 times.</p> <p>2 And you can have -- it's -- it's a very</p> <p>3 complex thing, but when you go look at her</p> <p>4 spinal cord, you can find the areas of the -- if</p> <p>5 you have a sensitive and long enough look, you</p> <p>6 can find the nerve fibers in the dorsal root</p> <p>7 ganglion where the sensory fibers lie, they will</p> <p>8 change as a result of this injury. So you have</p> <p>9 to understand that the -- even though the</p> <p>10 bleeding is in the vagina, even though the</p> <p>11 surgery is in the vagina, changes are occurring</p> <p>12 almost back to the spinal cord.</p> <p>13 BY MR. MONSOUR:</p> <p>14 Q. Yeah, but don't those result from the</p> <p>15 implantation of the TTV?</p> <p>16 A. There seems to be a correlation.</p> <p>17 Q. Okay. So the source would be the TTV --</p> <p>18 the source of the pain or at least the original</p> <p>19 source of the pain would be the TTV implant?</p> <p>20 A. That scientific --</p> <p>21 MR. VOUDOURIS: Objection. Form.</p> <p>22 THE WITNESS: I'm sorry. That scientific</p> <p>23 study hasn't been done.</p> <p>24 BY MR. MONSOUR:</p> <p>25 Q. But you believe most likely in your</p>	<p>1 BY MR. MONSOUR:</p> <p>2 Q. Okay. Let me ask you this, once a woman's</p> <p>3 pain becomes chronic, does it go away on its own?</p> <p>4 A. I don't know the answer to that, sir.</p> <p>5 Q. Is there anything -- I mean, I guess</p> <p>6 you're probably their best nerve expert or their top</p> <p>7 nerve expert. So what you're telling me is pain</p> <p>8 involves nerves and the brain, correct?</p> <p>9 A. That's correct.</p> <p>10 Q. And once pain becomes chronic, is there</p> <p>11 anything that ever happens in the nerves or in the</p> <p>12 brain that would stop that pain from being chronic?</p> <p>13 In other words, make it go away?</p> <p>14 A. That's a great question and a lot of great</p> <p>15 scientists are working to solve that problem. I</p> <p>16 don't -- when -- if they do, I don't think we</p> <p>17 understand the mechanism of why the pain went away</p> <p>18 because if we did, we could figure that out, and that</p> <p>19 would be a major scientific medical discovery.</p> <p>20 Q. Okay. Let me -- let me reask my question</p> <p>21 again because I think I was a little bit unclear</p> <p>22 possibly. Once pain becomes chronic, do you expect</p> <p>23 it to go away or remain?</p> <p>24 A. I don't know the answer to that.</p> <p>25 Q. Is it -- have you seen situations when</p>
<p style="text-align: center;">Page 35</p> <p>1 reasonable medical or reasonably certain medical</p> <p>2 opinion that that would be the case, correct?</p> <p>3 MR. VOUDOURIS: Objection.</p> <p>4 THE WITNESS: And I'll go back to what I</p> <p>5 said originally, and that is that there are a</p> <p>6 certain percentage of people who will have a</p> <p>7 chronic post-operative pain syndrome and we</p> <p>8 don't know the reasons for it. What I just gave</p> <p>9 you was a testable hypothesis, but I haven't</p> <p>10 done the studies nor have anybody else. And the</p> <p>11 studies have to be done in order to have a</p> <p>12 conclusion.</p> <p>13 BY MR. MONSOUR:</p> <p>14 Q. So -- so let me see if I understand you,</p> <p>15 Dr. McLendon. So basically what we know is -- is</p> <p>16 there's chronic pain. The source -- the initial</p> <p>17 source of the pain was the TTV. We just don't know</p> <p>18 how the pain is being transmitted to the brain long</p> <p>19 term?</p> <p>20 MR. VOUDOURIS: Objection. Form.</p> <p>21 THE WITNESS: I believe we can say that we</p> <p>22 don't understand how the chronic pain comes</p> <p>23 about and we can't predict which woman will have</p> <p>24 it.</p>	<p style="text-align: center;">Page 37</p> <p>1 you're looking at nerves where chronic pain remains</p> <p>2 forever?</p> <p>3 MR. VOUDOURIS: Objection. Form.</p> <p>4 THE WITNESS: I am aware of patients who</p> <p>5 have chronic pain syndromes that last forever.</p> <p>6 BY MR. MONSOUR:</p> <p>7 Q. And do they last forever because whatever</p> <p>8 is happening in the nerves or whatever irritation</p> <p>9 there is to the nerves is ongoing?</p> <p>10 A. Once again, we get back to that gray area</p> <p>11 where there's a lot of scientific pain research going</p> <p>12 into it that people just don't know the answer to.</p> <p>13 Q. Have you ever seen anybody that's had</p> <p>14 chronic long-term pain where the pain has just gone</p> <p>15 away?</p> <p>16 MR. VOUDOURIS: Objection.</p> <p>17 THE WITNESS: I am aware of some, yes.</p> <p>18 BY MR. MONSOUR:</p> <p>19 Q. Is it infrequent?</p> <p>20 MR. VOUDOURIS: Objection.</p> <p>21 THE WITNESS: I don't know. You just</p> <p>22 asked me if I was aware.</p> <p>23 BY MR. MONSOUR:</p> <p>24 Q. Okay, okay. In those people where the</p> <p>25 pain went away, do you know what caused the pain to</p>

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<p>1 go away?</p> <p>2 A. Of course not.</p> <p>3 Q. Okay. And that's what you were talking</p> <p>4 about before, I believe. Is that -- is that a fair</p> <p>5 statement, Dr. McLendon?</p> <p>6 A. That -- there's -- I mean, to answer that</p> <p>7 question, there are a lot of drug companies that are</p> <p>8 trying to figure that out because as you can imagine,</p> <p>9 that is a -- that is a very important area to relieve</p> <p>10 pain of chronic sufferers. That's a very important</p> <p>11 area of research.</p> <p>12 Q. Are you involved in that research?</p> <p>13 A. Not today. I have been approached by some</p> <p>14 pain doctors at Duke about getting involved, yes,</p> <p>15 sir.</p> <p>16 Q. Okay. So -- so you have been approached</p> <p>17 to get involved in that, but you have not started,</p> <p>18 correct?</p> <p>19 A. That's correct.</p> <p>20 Q. Okay. Would you be working with one of</p> <p>21 the drug companies in that research?</p> <p>22 A. I believe this is a Department of Defense</p> <p>23 funding apparatus.</p> <p>24 Q. Okay. Let me ask you this, and I -- I</p> <p>25 want to talk about how nerves transmit pain a little</p>	<p>1 the nerve?</p> <p>2 A. Yes, sir. Quite often, it can be on the</p> <p>3 nerve. It can be back in the cell body.</p> <p>4 Q. As far as pain receptors, are those at the</p> <p>5 end of the nerve or can those be along the length of</p> <p>6 the nerve?</p> <p>7 A. It's my understanding they're all at the</p> <p>8 end of the nerve.</p> <p>9 Q. So let's say I've got a pain receptor and</p> <p>10 the pain receptor is at the end of a nerve. If</p> <p>11 that's irritated, it will transmit pain back up the</p> <p>12 length of the nerve to the brain, correct?</p> <p>13 A. Yes, sir.</p> <p>14 Q. Now, if the nerve -- if I go back up,</p> <p>15 let's say one inch from the end of the nerve where</p> <p>16 the receptor is, and something irritates that -- that</p> <p>17 portion of the nerve, which is an inch away from the</p> <p>18 nerve receptor, will that cause the person pain?</p> <p>19 MR. VOUDOURIS: Objection.</p> <p>20 THE WITNESS: Even a millimeter away, it</p> <p>21 won't cause pain.</p> <p>22 BY MR. MONSOUR:</p> <p>23 Q. Okay. So the only area that can cause</p> <p>24 pain is the nerve receptor?</p> <p>25 A. That's correct.</p>
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<p>1 bit, because I don't know much about this, and I'd</p> <p>2 like you to kind of teach me.</p> <p>3 A. Yes, sir.</p> <p>4 Q. How does -- how does a nerve -- how does a</p> <p>5 nerve become irritated or -- I don't even know if I'm</p> <p>6 using the right word, but how does the nerve become</p> <p>7 irritated to the point where it produces pain? What</p> <p>8 causes the irritation?</p> <p>9 A. Yes, sir. That's a good question. Pain</p> <p>10 fibers have got receptors on the end of it. And you</p> <p>11 have got to stimulate the receptor in order to</p> <p>12 generate pain. There was a theory back in the early</p> <p>13 1900s that excessive stimulation of any nerve</p> <p>14 resulted in pain, and that was disproven, I think, in</p> <p>15 the 1940s.</p> <p>16 You can stimulate pain fibers and</p> <p>17 there's -- as you can imagine, there's a high density</p> <p>18 of pain fibers in the teeth. You can stimulate a</p> <p>19 tooth fiber and experience exquisite pain, but it has</p> <p>20 to be through a receptor. If you just touch on the</p> <p>21 nerves themselves, there's no stimulation of axonal</p> <p>22 action potentials or, you know, signals down the</p> <p>23 nerve fiber. And you need to stimulate the</p> <p>24 receptors.</p> <p>25 Q. Is the -- is the receptor at the end of</p>	<p>1 Q. And --</p> <p>2 A. It's -- may I -- if I could -- I'm sorry,</p> <p>3 sir. If I could interrupt and say, it's like your</p> <p>4 ears. Your ears have got receptors. And you can</p> <p>5 hear a signal going, but if the receptors in your ear</p> <p>6 were to go numb, you would be deaf. And those are</p> <p>7 nerve receptors there, but they're for vibration</p> <p>8 which is what a sound is.</p> <p>9 Q. Okay. If -- so if something is rubbing</p> <p>10 against a nerve away from the receptor, it's not</p> <p>11 going to cause pain. But if it's rubbing at the</p> <p>12 receptor, it could cause pain?</p> <p>13 A. It could cause pain. Alternatively, the</p> <p>14 most common pressure phenomenon are like the --</p> <p>15 carpal tunnel syndrome where the hand goes numb, and</p> <p>16 those are pain fibers. As you can imagine, your hand</p> <p>17 has an exquisite number of pain fibers in them and --</p> <p>18 but yet you get numbness in carpal tunnel syndrome.</p> <p>19 Q. But in carpal tunnel syndrome, the nerve</p> <p>20 is being pinched at the wrist, correct?</p> <p>21 A. That -- that's exactly correct. You asked</p> <p>22 about a millimeter, a centimeter, an inch away,</p> <p>23 that's exactly what's happening.</p> <p>24 Q. Okay. So let me see if I understand your</p> <p>25 carpal tunnel analogy. Carpal tunnel is an</p>

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<p>1 irritation of the nerves not at the pain receptor, 2 and it accordingly causes numbness, correct? 3 A. That's correct. 4 Q. However, if you went down to the end of 5 your fingers where those nerves go to and I put a 6 match under them and it transmitted the heat pain, 7 that would be something that's affecting the pain 8 receptor? 9 A. That's correct. 10 Q. So what we -- what we can -- what I can 11 take from this analogy is that if we were to squeeze 12 nerves away from the receptor, they wouldn't cause 13 pain, but they might cause numbness? 14 A. That's correct. 15 Q. Is there any way to squeeze a nerve away 16 from the receptor where it could cause pain? 17 MR. VOUDOURIS: Objection. 18 THE WITNESS: I'm not familiar with it, 19 sir. 20 BY MR. MONSOUR: 21 Q. Okay. Now, again, on a subject that 22 you're very familiar with and with which I'm very 23 unfamiliar, nerve receptors are at the end of the 24 nerves, but are there also nerve receptors that are 25 along the length -- the length of the nerve in some</p>	<p>1 axons, for nerve fibers and just count them and -- in 2 their nerve receptor field. 3 Q. You lost me there. Okay. My question is 4 more -- is more simple. When you're looking at a 5 slide, does a nerve receptor look different than a 6 nerve? 7 A. By and large, no. 8 Q. So when you're looking at a slide and you 9 say -- if we're trying to determine if there's nerve 10 receptors which can cause pain, how can you tell 11 whether or not the slides you're looking at is nerves 12 or nerve receptors? 13 A. Because you look in the nerve terminal 14 field and you look at the nerve, and with the nerve 15 just stopped, then you assume that is a nerve 16 receptor. If it continues on, then -- then you've 17 got -- and you're looking at the appropriate stain, 18 then you just count the number of nerve fibers in a 19 location and compare them with known controls. 20 Q. Well, but here's my question, though. 21 Most slides that you look at are pretty much 2D 22 instead of 3D, correct? 23 A. That's correct. 24 Q. So if that's the case, how can you tell 25 whether or not that's the ending point of the nerve</p>
<p>1 nerves? 2 MR. VOUDOURIS: Objection. 3 THE WITNESS: I'm not familiar with those, 4 sir. I think they're all at the end of the 5 nerve terminals. 6 BY MR. MONSOUR: 7 Q. Okay. How -- if you look under a 8 microscope, how does a nerve receptor look different 9 than a nerve if you cut across them? 10 A. The -- the nerve receptor can have a lot 11 of different appearances. In fact, it -- many of the 12 C delta -- the C fibers and the A delta fibers can be 13 what they call a -- a bare nerve terminal, can act as 14 a -- a pain receptor. But it's the -- it's the 15 specialized end that's -- that they just call a bare 16 nerve terminal. Alternatively, they can be -- they 17 can be quite large -- the Pacinian corpuscle can be 18 quite large, actually, and that's a touch. 19 Q. So I guess what I'm getting at is, if 20 you're looking at a -- a slide that cuts across a 21 nerve and cuts across a receptor, if they're -- if 22 they're cut, they look differently is what you're 23 telling me? 24 A. Well, the way you do the scientific study 25 on that is you take a section and stain it up for</p>	<p>1 or whether it continues on past where the -- the 2 cutting of the tissue was? 3 A. The way they have solved that question 4 scientifically and the studies that have looked at 5 this is they just count the number of nerves inside 6 of -- of nerves now, not Schwann cells, but looking 7 at nerves, they just look at the number of nerves per 8 square centimeter in that two-dimensional structure 9 of that glass slide and then compare that to a 10 control. This is most commonly done in diabetes. 11 Q. How does that counting of nerves -- how 12 does that tell you whether or not it's nerve versus 13 nerve receptors? Can you explain that to me? 14 A. Yes, sir. You -- as I said, you look into 15 an area that has a receptor field. And you -- then 16 you count the nerves and you just assume there's a 17 one-to-one correlation of nerve-to-nerve receptors. 18 So that increased density of nerve fibers compared to 19 your controls should correlate with numbness or 20 increased -- increased distribution or normal 21 distribution of nerve fibers. 22 Q. I'm not so sure I understand what you're 23 trying to explain. 24 A. Yes, sir. 25 Q. Could you try it again and kind of teach</p>

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<p>1 me -- how can you tell by looking at -- counting the 2 number of nerves that some of them aren't -- some of 3 them aren't receptors versus just the nerves that are 4 continuing beyond the space that we're looking at?</p> <p>5 A. All right, sir. The easiest way to think 6 about it is I'm sitting at a table right now. And 7 there are seven wires sitting on the floor in front 8 of me. These wires all go to microphones that are -- 9 let's just call these microphones receptors. We use 10 a scientific shorthand to count those nerve terminals 11 or those -- those lines and say, oh, I see seven in a 12 short period of space. We -- then we do the 13 assumption of there must be seven nerve receptors 14 nearby. But you have to count it on an individual 15 nerve fiber. When the nerves go -- and that's the 16 other thing I haven't explained clearly.</p> <p>17 When the nerves are about to terminate 18 into a receptor, they become single individual 19 fibers, not these bundles of fascicles that 20 Dr. Iakovlev is showing, but individual nerve fibers 21 that can be picked up by special stains. You count 22 the individual small, tiny nerve fibers and assume 23 there's a one-to-one correlation of the individual 24 tiny nerve fibers to receptors and then compare that 25 number to a known control.</p>	<p>1 A. Okay. 2 Q. I'm trying to do this one step at a time. 3 So let's -- let's just knock this one out first and 4 then we'll go to that one so -- because I'm having to 5 wrap my arms around this. 6 So if we're looking at a slide and we see 7 a single fiber nerve, it's possible that that could 8 be a nerve receptor, correct? 9 MR. VOUDOURIS: Objection. Form. 10 THE WITNESS: It's possible that that 11 could be a nerve receptor. It could be going to 12 a nerve receptor, that's true. 13 BY MR. MONSOUR: 14 Q. Okay. So it could be a nerve receptor or 15 possibly going to a nerve receptor. How would you, 16 Dr. McLendon, try and figure out whether it's a nerve 17 receptor or a nerve going to a nerve receptor? 18 A. That's -- I would figure it out by doing 19 stains for autonomic nerves. 20 Q. Okay. 21 A. I would rule out the possibility. 22 Q. Okay. And what's an autonomic nerve? 23 A. Those are the nerves that are transmitting 24 signals away from the spinal cord to the muscles, the 25 arteries, the glands, those kind of things.</p>
<p style="text-align: center;">Page 47</p> <p>1 Q. Okay. So when you're looking at, I think 2 you said, a square centimeter of tissue when you're 3 looking at the nerves that are in there, if you saw 4 some where there was just a single nerve fiber, 5 there's a chance that that would be a nerve receptor? 6 MR. VOUDOURIS: Objection to form. 7 THE WITNESS: That is -- that is the way 8 the scientific studies are done. There's a 9 chance. And then you have to prove it. 10 BY MR. MONSOUR: 11 Q. Okay. And so -- all right. So let me see 12 if I've got this right. I'm looking at a slide and I 13 see a single nerve fiber. There is a possibility 14 that that single nerve fiber is a pain receptor, 15 correct? 16 MR. VOUDOURIS: Objection. Form. Go 17 ahead. 18 THE WITNESS: The science suggests that 19 you -- or tells you that you have to rule out 20 autonomic nerves which can be done with other 21 special stains. You can actually -- 22 BY MR. MONSOUR: 23 Q. Wait, wait. 24 A. You can -- 25 Q. I'm trying to do this one step at a time.</p>	<p style="text-align: center;">Page 49</p> <p>1 Q. Okay. Autonomic nerves don't involve the 2 sensation of pain, correct? 3 A. That's correct. 4 Q. Okay. Autonomic nerves might be the 5 things that tell my -- my muscles to contract either 6 voluntarily or involuntarily, correct? 7 A. Correct. 8 Q. Okay. So if you found -- how would you 9 rule out that it was not an autonomic nerve? 10 A. There's a stain called a vasoactive 11 intestinal peptide, VIP. 12 Q. Okay. So you would use the VIP stain, and 13 that would tell you if it is autonomic or not, 14 correct? 15 A. That would -- that would help a lot, yes, 16 sir. 17 Q. Okay. So if you did the VIP stain and it 18 said it's not an autonomic nerve, at that point in 19 time, do you even know whether or not it is a nerve 20 receptor or going to a nerve receptor? 21 A. You would have more confidence that it was 22 a sensory nerve. 23 Q. Okay. Well -- okay, I get that. I get 24 that, that it -- that you would know that it's a 25 sensory nerve and not an autonomic nerve. But would</p>

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<p>1 you know at that point in time that it was a nerve 2 receptor, or would it still be an open question as to 3 whether it's a nerve receptor or a nerve that's 4 simply going to a nerve receptor?</p> <p>5 A. I'm not sure those studies have been done 6 that I could reliably answer that question.</p> <p>7 Q. Okay. So let me ask it this way. Any 8 time we see a single nerve fiber, once we rule out 9 that through VIP staining that it's an autonomic 10 nerve, we know that that single nerve fiber could 11 possibly be a pain receptor, correct?</p> <p>12 MR. VOUDOURIS: Objection. Form.</p> <p>13 THE WITNESS: I don't know how you know 14 something could possibly be. I mean, knowledge 15 is one thing. So it would -- you leave out 16 the -- you leave in the possibility of it being 17 a sensory fiber of some type.</p> <p>18 BY MR. MONSOUR:</p> <p>19 Q. Okay. So if I was looking for -- if I was 20 trying to find pain-generating nerve receptors in 21 slides that we could point to and say this might be a 22 pain generator, I would want to look for single fiber 23 nerves where we had ruled out that they were 24 autonomic, correct?</p> <p>25 A. That would be a great start.</p>	<p>1 page 19, there are several photos of slides that 2 Dr. Iakovlev's done. Do you see those?</p> <p>3 A. I see Figure set 1A.</p> <p>4 Q. Okay. Figure set 1A. In Figure set 1A or 5 in any of the following pictures, do you see any 6 possible nerve receptors in any of those pictures?</p> <p>7 A. None. Because they are taken at too low 8 of a magnification.</p> <p>9 Q. And is that for all of the slides that -- 10 is that for all of the slides that Dr. Iakovlev has 11 included with his report?</p> <p>12 A. That's correct.</p> <p>13 Q. Okay. What magnification are these photos 14 taken at?</p> <p>15 A. These are anywhere from 10 to 20X. I'm 16 sorry. From 4X to 10X it looks like, maybe even as 17 high as 20X.</p> <p>18 Q. Okay.</p> <p>19 A. I -- I don't see any 40X or 100X.</p> <p>20 Q. Okay. So Dr. Iakovlev's photos that are 21 attached to his report go from -- in your opinion, 22 about 4X to 20X?</p> <p>23 A. Well, I mean, the -- it's stated in the 24 slide caption.</p> <p>25 Q. Okay. It looks like on page 69, is there</p>
Page 51	Page 53
<p>1 Q. Okay. Good. But the point that I think 2 that you're trying to make is, and I want to make 3 sure that I understand this, is that it could 4 certainly be a pain receptor, but it might simply be 5 the nerve that's going to the pain receptor. Am I 6 correct with that?</p> <p>7 A. You would be correct if it were the right 8 size. A delta and C fibers are based on size and 9 myelination degree.</p> <p>10 Q. So what size would I be looking for for 11 A delta and C fibers?</p> <p>12 A. You would be looking for small fibers on 13 C fibers. They are small non-myelinated. And the 14 A deltas are small, thinly myelinated fibers. So you 15 would barely be able to pick them up with an S100 16 stain.</p> <p>17 Q. Would you pull out Dr. Iakovlev's report 18 for me?</p> <p>19 A. Yes, sir (Witness complies).</p> <p>20 Q. Do you have it there?</p> <p>21 A. Yes, sir.</p> <p>22 Q. And let's turn to some of the photos that 23 we're looking at --</p> <p>24 A. Yes, sir.</p> <p>25 Q. -- if we could. And I guess, starting on</p>	<p>1 one that's 100X?</p> <p>2 A. That does appear to be one at 100X, yes, 3 sir.</p> <p>4 Q. Okay. What type of magnification would 5 you need to see nerve receptors?</p> <p>6 A. The A delta and C fibers you would 7 probably need 40 to 100X.</p> <p>8 Q. Okay. So if we look at the picture on 9 page 69 that is 100X, are any of those nerves that 10 you see -- or let me ask it this way, in the picture 11 that's on page 69, or the pictures that are on 12 page 69, do you see anything there that could 13 possibly be a nerve receptor?</p> <p>14 MR. VOUDOURIS: Objection. Form.</p> <p>15 THE WITNESS: I -- I see no nerve -- it's 16 the wrong stain. It's an H and E stain. I see 17 no nerves in that tissue.</p> <p>18 BY MR. MONSOUR:</p> <p>19 Q. Okay. To see it, you said you'd need an 20 S100 stain?</p> <p>21 A. No, sir. I said he used an S100 stain 22 which is a myelin stain. You would need a -- a nerve 23 specific stain like a PGP 9.5 or a neurofilament 24 protein stain.</p> <p>25 Q. What was the last one called again, sir?</p>

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<p>1 A. Neurofilament protein.</p> <p>2 Q. Okay. Did Dr. Iakovlev do any of those</p> <p>3 on -- on any of these slides?</p> <p>4 A. Not to my knowledge, sir. It's my</p> <p>5 understanding that he asked one of the</p> <p>6 neuropathologists at his hospital which is the best</p> <p>7 stain to use, and they told him S100.</p> <p>8 Q. So do you think that the neuropathologist</p> <p>9 at his hospital got that wrong?</p> <p>10 MR. VOUDOURIS: Objection.</p> <p>11 THE WITNESS: No, sir. That's a great</p> <p>12 stain for doing S100. I mean, S100 is a great</p> <p>13 stain for doing Schwann cells. But they -- and</p> <p>14 that shows you peripheral nerve -- the location</p> <p>15 of peripheral nerve fascicles. And I believe</p> <p>16 that was all Dr. Iakovlev was looking for.</p> <p>17 BY MR. MONSOUR:</p> <p>18 Q. Okay. Would you look over -- look at</p> <p>19 page 83. You see that?</p> <p>20 A. I do.</p> <p>21 Q. What is that?</p> <p>22 MR. VOUDOURIS: Objection.</p> <p>23 THE WITNESS: It looks like a polarization</p> <p>24 microscopic picture of some foreign material.</p> <p>25</p>	<p>1 BY MR. MONSOUR:</p> <p>2 Q. Some -- some people can look at something</p> <p>3 and say, this is what it is. I don't know what</p> <p>4 answer is in your head. So I'm asking the question.</p> <p>5 Okay?</p> <p>6 A. I'm sorry to upset you, sir.</p> <p>7 Q. I'm not upset. But you sound like you</p> <p>8 are.</p> <p>9 A. No, sir.</p> <p>10 Q. So on page 83, you can't tell me what</p> <p>11 those are pictures of?</p> <p>12 MR. VOUDOURIS: Objection. Asked and</p> <p>13 answered.</p> <p>14 THE WITNESS: If -- no, sir. I can't tell</p> <p>15 you without reading the caption. And the</p> <p>16 caption doesn't -- doesn't give me a hint.</p> <p>17 BY MR. MONSOUR:</p> <p>18 Q. Okay. Flip over the page to 84. Look in</p> <p>19 the top photo. Can you tell me what that is?</p> <p>20 MR. VOUDOURIS: Objection.</p> <p>21 THE WITNESS: It looks like a thread.</p> <p>22 BY MR. MONSOUR:</p> <p>23 Q. Okay. And why do you say that?</p> <p>24 A. Because it's elongated and round.</p> <p>25 Q. What type of thread?</p>
<p>1 BY MR. MONSOUR:</p> <p>2 Q. Okay. Does it appear like it is degraded,</p> <p>3 in your opinion?</p> <p>4 MR. VOUDOURIS: Objection. Asked and</p> <p>5 answered. Outside of the scope.</p> <p>6 BY MR. MONSOUR:</p> <p>7 Q. You can answer.</p> <p>8 A. I have not looked at this before. And I'm</p> <p>9 not ready to form an opinion right now on it.</p> <p>10 Q. Well, look at it now, if you would. And</p> <p>11 I'll give you a couple minutes.</p> <p>12 A. I believe it would take me a while longer,</p> <p>13 sir. And I'd also like to refer to a lot of the</p> <p>14 literature. I mean, that's -- that's one of the</p> <p>15 problems I have is you can't just look at something</p> <p>16 and declare it to be that way and -- and play</p> <p>17 scientist. There's -- I mean, there's methodology</p> <p>18 that you have to follow, scientific method you have</p> <p>19 to follow in looking at something and describing</p> <p>20 it --</p> <p>21 Q. I was just asking you if you knew what it</p> <p>22 was.</p> <p>23 MR. VOUDOURIS: Objection. Asked and</p> <p>24 answered.</p> <p>25 THE WITNESS: I'm answering the question.</p>	<p>1 MR. VOUDOURIS: Objection.</p> <p>2 THE WITNESS: I don't know, sir.</p> <p>3 BY MR. MONSOUR:</p> <p>4 Q. Okay. Look on the next page, page 85.</p> <p>5 What's that?</p> <p>6 MR. VOUDOURIS: Objection. Form,</p> <p>7 foundation.</p> <p>8 THE WITNESS: It's -- it -- it's got a</p> <p>9 caption that claims it to be polypropylene.</p> <p>10 BY MR. MONSOUR:</p> <p>11 Q. Okay. Do you know one way or another</p> <p>12 whether or not that's true?</p> <p>13 A. I have no way of independently verifying</p> <p>14 that that's polypropylene.</p> <p>15 Q. Okay. Have you ever done any research on</p> <p>16 how TTV acts once it's implanted in the body?</p> <p>17 A. I mean, in the last few days, several</p> <p>18 days, I've -- I've read some literature on TTV</p> <p>19 implants and -- but not specifically looking at how</p> <p>20 it reacts with the body, no.</p> <p>21 Q. Well, I guess -- I'm not asking if you</p> <p>22 just read up on it, but have you ever done any</p> <p>23 research into how TTV reacts once it's put into the</p> <p>24 body, you yourself?</p> <p>25 A. No, sir.</p>

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<p>1 Q. Is it a fair statement to say that you 2 have no idea how TVT reacts once it's put in the 3 body?</p> <p>4 A. I have not been asked to form an opinion 5 on that, and I'm not going to offer one, sir.</p> <p>6 Q. Right. Well, but I'm -- I'm asking -- I'm 7 asking you right now. Do you have any idea how TVT 8 reacts once it's put in the human body?</p> <p>9 MR. VOUDOURIS: Objection. Asked and 10 answered.</p> <p>11 THE WITNESS: It acts as a foreign body, 12 and there's foreign body giant cell reactions. 13 Other than that, I have not formed any opinions 14 on this and not come to any conclusions.</p> <p>15 BY MR. MONSOUR:</p> <p>16 Q. How do you know that it reacts as a 17 foreign body and there's foreign body giant cells 18 that form? How do you know that?</p> <p>19 A. That's basic pathology, freshman year of 20 medical school.</p> <p>21 Q. Have you looked at tissues surrounding 22 explanted medical implants before?</p> <p>23 A. Yes, sir.</p> <p>24 Q. Does -- does the body respond differently 25 if the implant is inert versus noninert?</p>	<p>1 A. That's an absorbable suture.</p> <p>2 Q. Okay. Are there other types of implants 3 other than absorbable sutures that are not insert?</p> <p>4 A. None come to mind right now, sir. I'm 5 sure there are and I'm sure tonight I'll remember 6 them and expound to my wife all about them.</p> <p>7 Q. Okay.</p> <p>8 VIDEOGRAPHER: Counselor?</p> <p>9 MR. MONSOUR: That will be very 10 interesting.</p> <p>11 VIDEOGRAPHER: Counselor, excuse me. We 12 have five minutes remaining on the tape.</p> <p>13 MR. MONSOUR: Okay. Let me -- let me 14 finish this up and then we'll -- we'll take a 15 break.</p> <p>16 BY MR. MONSOUR:</p> <p>17 Q. Have you ever heard of some of the -- have 18 you ever heard of some of the hip implants which 19 might not be inert?</p> <p>20 MR. VOUDOURIS: Objection. Form.</p> <p>21 THE WITNESS: As -- as the chief of 22 surgical pathology here at Duke, I have a lot of 23 hip implants sitting outside my door.</p> <p>24 BY MR. MONSOUR:</p> <p>25 Q. Okay. And some of those are not inert,</p>
<p style="text-align: center;">Page 59</p> <p>1 A. You can answer that question by absorbable 2 sutures. Yes, you do have absorbable sutures. We 3 see that occasionally, and the body does form a 4 foreign body giant cell reaction. It dissolves. It 5 forms around, breaks off the segments, the pieces, 6 and absorbs the tissue, and the giant cells move 7 away.</p> <p>8 Q. The giant cells move away?</p> <p>9 A. That's correct. They -- they usually take 10 up a perivascular location.</p> <p>11 Q. What does it mean if the foreign body 12 giant cells remain around an implant?</p> <p>13 A. It means the implant persists.</p> <p>14 Q. If a -- if an implant is 100 percent 15 inert, does the -- do the foreign body giant cells go 16 away?</p> <p>17 A. It's my understanding they do not.</p> <p>18 Q. So any time there's an implant, whether 19 inert or not, the foreign body giant cells will be 20 present?</p> <p>21 A. That's correct.</p> <p>22 Q. You used the -- the -- what was the 23 example of the device that -- what's the name of it? 24 That where the -- the foreign body giant cells come 25 in and then they go away? What was that called?</p>	<p style="text-align: center;">Page 61</p> <p>1 correct?</p> <p>2 MR. VOUDOURIS: Objection. Foundation.</p> <p>3 THE WITNESS: I don't know, sir.</p> <p>4 BY MR. MONSOUR:</p> <p>5 Q. Have you ever seen a hip implant that 6 wasn't inert?</p> <p>7 MR. VOUDOURIS: Objection. Foundation.</p> <p>8 THE WITNESS: I -- I don't know how to 9 answer that. I mean, that's -- I haven't 10 examined any of those tissues, sir, to my 11 recollection.</p> <p>12 BY MR. MONSOUR:</p> <p>13 Q. Is it a fair statement to say that you do 14 not know how the body would respond to a noninert 15 implant?</p> <p>16 MR. VOUDOURIS: Objection.</p> <p>17 THE WITNESS: I just said that a -- a 18 noninert such as the cat gut absorbable sutures 19 are readily taken up. Macrophages come in. 20 They break off pieces. You know, in a -- in 21 laymen's terms, they break off pieces, and they 22 absorb it. And then they go back and get some 23 more. And they're all foreign body giant cell 24 reactions in this.</p>

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<p>1 BY MR. MONSOUR:</p> <p>2 Q. Is there anything that I should look for</p> <p>3 if I'm trying to establish with regard to how the</p> <p>4 body responds, what should I look for to determine if</p> <p>5 a product or an implant is degrading? Is there any</p> <p>6 response in the body which would tell you there is</p> <p>7 degradation of the implant going on?</p> <p>8 MR. VOUDOURIS: Objection. Form,</p> <p>9 foundation. Beyond his scope.</p> <p>10 THE WITNESS: I -- I haven't formed any</p> <p>11 opinions on that. I'm certainly not going to</p> <p>12 offer any in trial.</p> <p>13 VIDEOGRAPHER: Be a good time to stop,</p> <p>14 Counselor?</p> <p>15 MR. MONSOUR: Yeah, let's take a break.</p> <p>16 VIDEOGRAPHER: This is the end of Tape</p> <p>17 Number 1 in the deposition of Roger McLendon,</p> <p>18 M.D. The time is 3:22 p.m. We are off the</p> <p>19 record.</p> <p>20 (A recess transpired from 3:22 p.m. until</p> <p>21 3:34 p.m.)</p> <p>22 VIDEOGRAPHER: We are back on the record.</p> <p>23 The time is 3:34 p.m. This is the beginning of</p> <p>24 Videotape Number 2 in the deposition of Roger</p> <p>25 McLendon, M.D. Please continue.</p>	<p>1 BY MR. MONSOUR:</p> <p>2 Q. Okay. All right. So back to my question.</p> <p>3 With the nerves that are cut, you said there's an</p> <p>4 electric signal that -- that transmits pain back to</p> <p>5 the brain?</p> <p>6 A. It transmits this electrical-type signal.</p> <p>7 What happens is -- it's a very -- it's not like your</p> <p>8 standard copper wire that transmits a signal from the</p> <p>9 wall socket to your radio. What it amounts to is a</p> <p>10 very complex electrical signal that is -- that is</p> <p>11 based on sodium and potassium differences. And, I</p> <p>12 mean, I realize that's complicated, but it's not</p> <p>13 easy.</p> <p>14 And when you cut it, you -- you release</p> <p>15 that differential of sodium and potassium across the</p> <p>16 cell membranes, and it causes a -- a -- just a sudden</p> <p>17 surge of an action potential or signal down that</p> <p>18 nerve. So the action potentials are -- is based in</p> <p>19 chemistry, not electricity.</p> <p>20 Q. Okay, okay. However it -- the signal goes</p> <p>21 back up the nerve to the brain, and once it's cut,</p> <p>22 it -- there's an acute pain followed by numbness,</p> <p>23 correct?</p> <p>24 A. Yes, sir.</p> <p>25 Q. What -- what happens to a cut nerve? Does</p>
<p style="text-align: center;">Page 63</p> <p>1 BY MR. MONSOUR:</p> <p>2 Q. Dr. McLendon, we're back from a short</p> <p>3 break. Are you ready to continue?</p> <p>4 A. Yes, sir.</p> <p>5 Q. I have a question for you. On nerves, you</p> <p>6 said before that basically only nerve receptors can</p> <p>7 pick up pain and send it back up to nerves to the</p> <p>8 brain, right?</p> <p>9 A. That's correct.</p> <p>10 Q. What happens when a nerve is cut?</p> <p>11 A. You generate an electric -- an action</p> <p>12 potential and you feel this sharp electrical surge</p> <p>13 and then it's numb.</p> <p>14 Q. So -- so if a -- if during the process of</p> <p>15 surgery, implanting one of these TVT, if nerves are</p> <p>16 cut, there would be sharp pain during the surgery,</p> <p>17 but then afterwards, there would just be numbness?</p> <p>18 MR. VOUDOURIS: Objection. Form and</p> <p>19 foundation. Go ahead.</p> <p>20 THE WITNESS: As I said earlier, the acute</p> <p>21 pain is related to pain fibers locally</p> <p>22 regardless of the cause. Chronic pain is -- is</p> <p>23 what is differentiating what we don't know from</p> <p>24 the acute pain which we do know.</p>	<p style="text-align: center;">Page 65</p> <p>1 it die or does it -- what happens to it?</p> <p>2 A. The end away from the nerve, the free end</p> <p>3 let's call it, degenerates. The -- not only does the</p> <p>4 fiber itself, which we call an axon, degenerate, but,</p> <p>5 also, the -- the insulation, which we call the</p> <p>6 Schwann cells, they also degenerate.</p> <p>7 Proximally, back toward the spinal cord,</p> <p>8 there can be changes because your -- as you can</p> <p>9 imagine, keeping this chemical difference across the</p> <p>10 membrane takes a lot of energy. It takes -- it's a</p> <p>11 very active process. And that -- and when it's cut,</p> <p>12 it -- it winds up affecting the nerve all the way</p> <p>13 back up to its cell body. And the cell body of this</p> <p>14 nerve is found adjacent to the spinal cord. And --</p> <p>15 and that nerve body will swell up.</p> <p>16 Q. Okay. So once it swells up, what happens?</p> <p>17 A. Then it begins to heal and the healing</p> <p>18 process results in sprouts back at the cut's stump of</p> <p>19 the -- of the nerve. And so you can -- sprout.</p> <p>20 Q. So do -- do those sprouts then start to</p> <p>21 form nerve receptors?</p> <p>22 A. They don't form nerve receptors. What</p> <p>23 they do is they start sprouting and trying to find</p> <p>24 the old canals of the old insulation which then as</p> <p>25 a -- as they migrate down the canals or the tubes, I</p>

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<p>1 should call them -- as they migrate down the tube, 2 they go find their target organ or they find their -- 3 their target site of what we call innervation.</p> <p>4 Q. Okay. So what happens once it gets to the 5 target site of innervation?</p> <p>6 A. Then it will form either what we call a 7 synapse or a receptor.</p> <p>8 Q. Okay. So basically what you're telling 9 me, I guess, is once a nerve is cut, the simplest way 10 to put it is it kind of regenerates?</p> <p>11 A. It doesn't kind of. It does regenerate.</p> <p>12 Q. Okay. Great, great. So is that kind of 13 like I had a client one time who was having -- who 14 was having an epidural steroid injection in his neck, 15 and the doctor actually hit his spinal cord with the 16 needle, and it took a while for those -- that area of 17 the nerve to regenerate. Does that sound right?</p> <p>18 A. Not really, no, sir, because your spinal 19 cord is part of your central nervous system, and the 20 nerves are part of the peripheral nervous system. 21 The peripheral nervous system can regenerate. The 22 central nervous system can't.</p> <p>23 Q. So what happens to someone that has that 24 in their neck, in the central nervous system? Are 25 they just stuck with it?</p>	<p>1 some of them will form new nerve receptors, correct? 2 A. Some of them can form new nerve receptors, 3 that's right.</p> <p>4 Q. Okay. Hypothetically, if over time the 5 scar tissue around the mesh -- around those nerve 6 receptors, if it contracts, could that cause pain?</p> <p>7 MR. VOUDOURIS: Objection. Form, 8 foundation.</p> <p>9 THE WITNESS: It's -- it's unlikely that 10 stretching on a nerve is going to cause pain. 11 Stretching on a nerve usually just causes 12 numbness, pressure on a nerve, like we talked 13 about with carpal tunnel syndrome.</p> <p>14 BY MR. MONSOUR:</p> <p>15 Q. Okay. But I thought with regard to carpal 16 tunnel syndrome, you were talking about how it was in 17 an area that was being kind of pinched or squeezed 18 away from the receptor, correct?</p> <p>19 A. It doesn't matter. Anywhere along that 20 nerve fiber, if there is pressure, if there is 21 squeezing, then the nerve stops doing this complex 22 chemical reaction that -- that is related to the 23 action potential.</p> <p>24 Q. Okay. But here's what I'm getting at. If 25 a nerve regenerates into the scar tissue that forms</p>
<p style="text-align: center;">Page 67</p> <p>1 A. They can develop numbness in that area, 2 they can develop pain syndromes in that area, or the 3 rest of the body can adapt.</p> <p>4 Q. Okay. So in a surgery -- like let's say 5 that we got a -- a TVT is implanted in a woman, and 6 to implant the device, some nerves are cut. Do you 7 follow me thus far?</p> <p>8 A. I think I do, yes, sir.</p> <p>9 Q. Okay. As those nerves are cut, they will 10 attempt to regenerate or they will regenerate, 11 correct?</p> <p>12 A. Yes, sir.</p> <p>13 Q. Will they regenerate through the TVT mesh?</p> <p>14 A. They won't regenerate through the 15 polypropylene. They will regenerate into the mesh if 16 that's what you're asking. They will follow the scar 17 tissue into the mesh.</p> <p>18 Q. Okay. So these nerves -- these nerves, as 19 they are growing or regenerating through the mesh, 20 some might stop in the mesh and others might continue 21 regenerating past the mesh, correct?</p> <p>22 A. Well, it would be limited to where the 23 scar tissue is and the smooth muscle. I mean . . .</p> <p>24 Q. So if these nerves develop or grow into 25 the mesh or into the scar tissue around the mesh,</p>	<p style="text-align: center;">Page 69</p> <p>1 around the mesh, some of those nerves might end up 2 forming a receptor that's in that area, correct?</p> <p>3 MR. VOUDOURIS: Objection. Form.</p> <p>4 THE WITNESS: I mean -- so you asked two 5 ifs. And I mean, my -- my answer would be if, 6 if, if, as well.</p> <p>7 If it was a sensory fiber, if that sensory 8 fiber were a pain fiber, if it was in an area 9 that was irritated or there was an irritant, I 10 should say a stimulus, one might -- could feel, 11 I suppose, pain. And when I say I suppose, that 12 leads into a hypothesis that can actually be 13 studied. And the study of that would require 14 looking at those nerve terminals against 15 somebody who doesn't have pain.</p> <p>16 And seeing -- and because, let me -- and 17 this is an important point -- because you can 18 say, my good- -- and this happens in science all 19 the time. My goodness, I thought that would 20 have been painful. But when you look over here 21 at the other group, there is no pain, and they 22 have the exact same distribution.</p> <p>23 That's -- that's what we all the "aha 24 moment" in science when we disprove the -- the 25 hypothesis. But you've got to have the control</p>

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<p>1 data to do it. I can -- I can assume things. 2 But you've got to do the scientific study. 3 BY MR. MONSOUR: 4 Q. Okay. So let me ask a couple things and 5 see if they are scientifically true and established. 6 Is it true that peripheral nerves will regenerate? 7 A. That's a true statement. 8 Q. Is it true that peripheral nerves will 9 regenerate and create new nerve receptors? 10 A. They can be associated with new nerve 11 receptors, that's correct. 12 Q. Is it true that peripheral nerves that 13 regenerate and create new nerve receptors are able to 14 transmit pain? 15 A. That's what we don't know. You're asking 16 me if it's true and established in science. It's not 17 established in science. 18 Q. Okay. So are you -- are you saying -- and 19 this is one where I'm not so sure I understand what 20 you're saying so I'm going to ask the question. 21 You know that the nerves regenerate and 22 you know that they create -- create new nerve 23 receptors when they regenerate. Are you saying 24 you're just not sure whether or not the newly created 25 nerve receptors actually work?</p>	<p>1 itch. Even though it's a pain fiber going off, it 2 might feel like an itch. Multiple pain fibers may 3 feel -- feel even worse. And then it's -- it all 4 comes down to the science of number and density and 5 distribution of nerve fibers before you can answer a 6 question about -- related to pain. 7 Q. Okay. You lost me again. I was doing so 8 good, Doc. 9 So here's my question again. Are you 10 saying that the newly regenerated nerve receptors 11 might not work or are you saying it depends upon how 12 many of them have been regenerated? 13 A. Yes and yes. 14 Q. Okay. 15 A. Because if we knew the answer to your 16 question, I go back to what we said last hour, that 17 would help us come up with a plan on solving the 18 problem of chronic post-surgical pain. 19 Q. How many nerves does it take for someone 20 to feel pain? 21 A. To my knowledge, that is not known. 22 Q. It's not known? 23 A. To my knowledge, it is not known. And the 24 way one does those studies is compare the -- the 25 pain -- I'm sorry, the sensation of pain, the</p>
<p style="text-align: center;">Page 71</p> <p>1 MR. VOUDOURIS: Objection. Form. 2 THE WITNESS: You asked me if I'm sure. 3 And I'm doing my surety based on the evidence at 4 hand. And the evidence at hand is insufficient. 5 That's a great hypothesis. Perhaps the nerve 6 receptors don't work. 7 Another hypothesis is that the nerve 8 itself is not transmitting fibers. It's an 9 ineffective -- is not transmitting pain fibers. 10 That's a -- that's another hypothesis. All of 11 these things need to be tested. 12 BY MR. MONSOUR: 13 Q. Okay. So -- so what you're telling me is 14 the science -- you know that peripheral nerves 15 regenerate. And you know that they will regenerate a 16 new nerve receptor. And that's established by 17 science, correct? 18 A. That's correct. 19 Q. But what you're saying is it has not been 20 scientifically established that those nerve -- those 21 newly regenerated nerve receptors actually work? Is 22 that what you're telling me? 23 A. I'm saying that it's -- it's a number -- 24 it comes down to number and distribution of nerves. 25 Do you -- one nerve fiber, it might feel like an</p>	<p style="text-align: center;">Page 73</p> <p>1 biopsies from patients who are suffering pain versus 2 biopsies of patients who have no pain. You look at 3 the nerve terminals. You count the distributions. 4 You do the study. And go, oh, my goodness. Now, 5 that's the -- that's making a big assumption that is 6 not founded in science. 7 We have a -- you have a problem of chronic 8 post-surgical pain and they're looking at it from 9 multiple locations. Is it related back to the brain? 10 Is it related to the spinal cord? The question you 11 ask is a good question. But it has to -- is a good 12 test, I should say. But it has to be done in science 13 where you compare the nerve terminals versus in a 14 painful person versus a nonpainful. If you don't 15 have those answers, you can't make that conclusion. 16 You can say, oh, look at all the nerve 17 terminals. Once again, you go, I'm sorry, this is 18 one of the patients that doesn't have pain. And you 19 go, well, I just don't know why. And that's -- 20 that's how one does science. 21 Q. Okay. Let's -- let's go back to -- let's 22 go back to talking about nerve regeneration in the 23 situation where a TVT sling has been implanted. 24 A. Yes, sir. 25 Q. In that situation where a nerve has been</p>

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<p>1 cut and the nerve regenerates and there's a nerve 2 receptor that is regenerated in the scar tissue area 3 of the TVT sling, you follow me thus far?</p> <p>4 A. Well, you -- you're stating it as if we 5 both agreed that that was a fact, and we actually 6 started out as a hypothetical.</p> <p>7 Q. Okay. Well, I'm just kind of setting up 8 the -- the situation, okay? You agree that TVT 9 slings are implanted, correct?</p> <p>10 A. I agree that they are implanted, yes, sir.</p> <p>11 Q. You agree that scar tissue forms around 12 them, correct?</p> <p>13 A. That's correct.</p> <p>14 Q. You agree that during the process, some 15 nerves are cut, correct?</p> <p>16 A. I didn't agree to that. You said, let's 17 assume that some nerves are cut.</p> <p>18 Q. Okay. So you think -- is it -- would it 19 be physically possible for someone to implant a TVT 20 sling without cutting any nerves?</p> <p>21 A. That would seem unreasonable.</p> <p>22 Q. Okay. So let's focus on reason, Doctor.</p> <p>23 A. Well, no, no, no. Let's -- I said that 24 would seem unreasonable, but I haven't done the 25 studies, and those studies are not done. That would</p>	<p>1 A. I'm not sure because -- I would imagine 2 that it -- it would be true, but so many scars are 3 numb. And so -- so many of the paresthesias around 4 an area that's cut are not painful as they're just 5 more -- they feel like electricity. I mean, I think 6 we probably all have cut some part, and I've got one 7 part on my finger that is a scar where I cut a nerve, 8 and when I press on it, it feels like electricity, 9 kind of like a small version of a funny bone.</p> <p>10 Q. Okay.</p> <p>11 A. But it's not painful. It just feels like 12 electricity.</p> <p>13 Q. Okay.</p> <p>14 A. And in the -- in the area beyond it is 15 numb.</p> <p>16 Q. Let me ask this question, Doctor. If a 17 nerve receptor is surrounded by scar tissue and the 18 scar tissue contracts, can that cause pain?</p> <p>19 A. As I said before, it's more likely than 20 not to cause numbness. The contraction of a scar 21 puts pressure on the -- on the nerve, and then as we 22 have discussed many times before, that would probably 23 cause numbness.</p> <p>24 Q. Okay. But what if there was actual 25 contraction not just of the nerve but of the nerve</p>
<p style="text-align: center;">Page 75</p> <p>1 seem -- but you have -- there's so much that -- that 2 is scientifically need- -- that is begging to be 3 studied.</p> <p>4 Q. Well, there are certain things we know. 5 And one of the things is you probably aren't going to 6 be able to do a surgery without cutting some nerves 7 somewhere, right?</p> <p>8 A. It sounds reasonable.</p> <p>9 Q. Okay. So let's stick with reason. In 10 this situation and we've got a nerve that is cut 11 during the TVT procedure, correct?</p> <p>12 A. Correct.</p> <p>13 Q. That nerve regenerates, which you know 14 happens, correct?</p> <p>15 A. Yes, I do.</p> <p>16 Q. And that nerve then grows and regenerates 17 a new nerve receptor in the scar tissue. Assume that 18 for me, okay?</p> <p>19 A. Okay.</p> <p>20 Q. What would need to happen, assuming that 21 nerve receptor works, to cause pain?</p> <p>22 A. It would need to be stimulated.</p> <p>23 Q. Okay. Is there a way that scar tissue can 24 be stimulated or that scar tissue can move in a way 25 that stimulates a nerve receptor?</p>	<p style="text-align: center;">Page 77</p> <p>1 receptor itself?</p> <p>2 A. That -- as I said, that -- it sounds 3 reasonable to consider that would be numb.</p> <p>4 Q. Okay. Could contraction around a nerve 5 receptor cause pain, in your opinion?</p> <p>6 MR. VOUDOURIS: Objection. Form.</p> <p>7 THE WITNESS: Could contraction -- is 8 that -- is that the word you used?</p> <p>9 BY MR. MONSOUR:</p> <p>10 Q. Yes, sir. Could contraction of scar 11 tissue -- assume with me that there is a nerve 12 receptor that is embedded in scar tissue.</p> <p>13 A. Yes, sir.</p> <p>14 Q. Okay? If the scar tissue contracts, could 15 that cause pain?</p> <p>16 MR. VOUDOURIS: Objection. Form.</p> <p>17 THE WITNESS: Once again, I will say to a 18 reasonable human being, that sounds like a 19 reasonable hypothesis that needs to be tested. 20 Because if that were true, that would result in 21 a different approach to chronic post-surgical 22 pain. It would give a testable hypothesis.</p> <p>23 There are a lot of people working on 24 chronic post-surgical pain, and they have yet to 25 come up with an answer. They have done studies</p>

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<p>1 like this. They've -- they've done nerve blocks 2 on these patients. They've done -- they've cut 3 the nerves. And when they get initially hopeful 4 results, they test it on bigger studies, and 5 they've all failed. Nerve blocks, cut nerves, 6 they've all failed. Now, not necessarily 7 related to TVTs, but to other areas of pain, 8 abdominal pain, whatever, hernia surgery, these 9 direct approaches to numbing up the nerve, 10 breaking the nerve, cutting the nerve, they've 11 all failed.</p> <p>12 That means there's -- there's driven 13 reasonable pain scientists to come up with other 14 hypotheses that just say, there's this 2 percent 15 of people who have chronic pain -- 16 post-operative pain syndromes, and we don't know 17 why. Your hypothesis is reasonable. It needs 18 to be tested.</p> <p>19 BY MR. MONSOUR:</p> <p>20 Q. Do you think my reasonable hypothesis 21 should have been tested by Ethicon or looked at by 22 Ethicon before they sold these products that result 23 in scar formation around the mesh?</p> <p>24 MR. VOUDOURIS: Objection. Form, 25 foundation. Beyond the scope.</p>	<p>1 trial about it.</p> <p>2 BY MR. MONSOUR:</p> <p>3 Q. Well, that doesn't mean we're not going to 4 ask you a question about it at trial. It doesn't 5 mean it's not fair game. And this is a discovery 6 deposition. This isn't trial testimony. So I'm 7 asking you a question and I'd like you to answer it.</p> <p>8 MR. VOUDOURIS: Objection. Asked and 9 answered twice. Beyond the scope.</p> <p>10 MR. MONSOUR: I want an answer to the 11 question. He's being evasive.</p> <p>12 BY MR. MONSOUR:</p> <p>13 Q. Please answer it, Doctor.</p> <p>14 MR. VOUDOURIS: He is not being evasive. 15 Calm down. He answered your question twice.</p> <p>16 BY MR. MONSOUR:</p> <p>17 Q. Answer the question.</p> <p>18 A. I haven't formed an opinion on this, and 19 I'm not going to offer testimony at trial.</p> <p>20 Q. Should they have done the study before 21 they sold this product, Doctor? Answer the question.</p> <p>22 MR. VOUDOURIS: Objection. Asked and 23 answered three times now.</p> <p>24 THE WITNESS: I haven't formed an opinion 25 on that, and I'm not going to offer one at</p>
<p style="text-align: center;">Page 79</p> <p>1 THE WITNESS: I don't know what Ethicon 2 did before they started implanting these TVTs.</p> <p>3 BY MR. MONSOUR:</p> <p>4 Q. Wasn't -- my question wasn't, did they. 5 It was, should they have?</p> <p>6 MR. VOUDOURIS: Objection. Beyond the 7 scope.</p> <p>8 THE WITNESS: I haven't been asked to form 9 an opinion on that, and I certainly haven't gone 10 out of my way to think up one.</p> <p>11 BY MR. MONSOUR:</p> <p>12 Q. Well, it's not one that really requires a 13 lot of study. Should -- you mentioned several 14 scientific studies that are reasonable hypothesis 15 that I've mentioned before, and it would be 16 reasonable to look at something. Shouldn't Ethicon, 17 as the manufacturer of this product that's implanted 18 to many, many women, shouldn't they have done the 19 scientific study to determine if this reasonable 20 hypothesis is right before they sold it to a bunch of 21 women?</p> <p>22 MR. VOUDOURIS: Objection. Beyond the 23 scope.</p> <p>24 THE WITNESS: I haven't formed an opinion 25 on that, sir. And I'm not going to testify in</p>	<p style="text-align: center;">Page 81</p> <p>1 trial. I do not develop prostheses or do any 2 phase 1, 2 or 3 studies on implantation of 3 prostheses. I never have done. I don't know 4 the science. I don't know the medicine. I'm 5 not going to offer an opinion on that.</p> <p>6 BY MR. MONSOUR:</p> <p>7 Q. And maybe for those reasons, you're not a 8 good expert for this case, don't you agree?</p> <p>9 MR. VOUDOURIS: Objection.</p> <p>10 THE WITNESS: Well, I think I'm a pretty 11 good neuropathologist.</p> <p>12 BY MR. MONSOUR:</p> <p>13 Q. But you don't know anything about how mesh 14 operates in the body, true?</p> <p>15 MR. VOUDOURIS: Objection.</p> <p>16 THE WITNESS: I know that the mesh is used 17 to put a -- a kink in the ureter and -- and help 18 women with stress incontinence.</p> <p>19 BY MR. MONSOUR:</p> <p>20 Q. But you don't know how this mesh responds 21 in the body and how nerves respond within that mesh, 22 do you?</p> <p>23 MR. VOUDOURIS: Objection.</p> <p>24 THE WITNESS: I -- I know as much as 25 science allows me to know, and it's more than</p>

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<p>1 Dr. Iakovlev has -- has put forth as a -- as a 2 reasonable hypothesis.</p> <p>3 BY MR. MONSOUR:</p> <p>4 Q. How many studies has Dr. Iakovlev done 5 looking at explanted mesh samples?</p> <p>6 A. How many scientific studies? None.</p> <p>7 Q. How many studies of any type has he done?</p> <p>8 A. Scientific studies? I have no idea.</p> <p>9 Q. How many -- how many published studies has 10 he done?</p> <p>11 A. I have no idea on -- on -- I think he's 12 had five or six observational studies reported in -- 13 in scientific journals.</p> <p>14 Q. And those are peer-reviewed scientific 15 journals, aren't they?</p> <p>16 A. And they are observational studies that 17 generated hypothesis that tested no hypothesis.</p> <p>18 Q. Great. What was my question?</p> <p>19 A. The scientific method -- the scientific 20 method involves taking a hypothesis, comparing -- 21 doing the studies comparing --</p> <p>22 Q. Did I ask you -- I said, were they 23 peer-reviewed journals? What is the answer to my 24 question?</p> <p>25 A. I think all but one was a peer-reviewed</p>	<p>1 could even be remotely considered to be pain 2 fibers.</p> <p>3 BY MR. MONSOUR:</p> <p>4 Q. Actually, they could be pain fibers. They 5 just haven't had the right stains put on them, 6 correct?</p> <p>7 A. That would be called science.</p> <p>8 Q. No, listen to my question. Listen to my 9 question. What you're saying is Dr. Iakovlev's 10 slides don't have the right stains on them; however, 11 if Dr. Iakovlev had put -- put certain different 12 stains on his slides, they very well might show nerve 13 receptors in the area, correct?</p> <p>14 MR. VOUDOURIS: Objection. Form.</p> <p>15 THE WITNESS: He has half the appropriate 16 tissues to do that study. As we have said 17 numerous times, he needs to have control studies 18 of vaginal tissue of patients with TVT meshes 19 that have not -- do not experience chronic pain. 20 And then he needs to be able to do the 21 appropriate stains to find the non-myelinated 22 fibers and do a density study which it would 23 just test one hypothesis of the entire chronic 24 pain syndrome problem.</p>
<p style="text-align: center;">Page 83</p> <p>1 journal.</p> <p>2 Q. How many peer-reviewed -- how many 3 articles have you gotten published in peer-reviewed 4 journals concerning explanted mesh?</p> <p>5 A. None.</p> <p>6 Q. Who's in a better position to opine as to 7 how the body responds to mesh implants, you or 8 Dr. Iakovlev?</p> <p>9 A. A board-certified neuropathologist is in a 10 much better position to discuss the mechanisms of 11 pain in this particular situation.</p> <p>12 Q. You are a board-certified neuropathologist 13 who has never looked at a TVT explant in your life, 14 correct?</p> <p>15 A. I --</p> <p>16 MR. VOUDOURIS: Objection.</p> <p>17 THE WITNESS: I have not until today.</p> <p>18 BY MR. MONSOUR:</p> <p>19 Q. Don't you think you would need to look at 20 a TVT explant in order to render opinions, Doctor?</p> <p>21 MR. VOUDOURIS: Objection. Asked and 22 answered.</p> <p>23 THE WITNESS: I have looked at these 24 explants, I've looked at Dr. Iakovlev's 25 evidence, and he does not look at things that</p>	<p style="text-align: center;">Page 85</p> <p>1 BY MR. MONSOUR:</p> <p>2 Q. But let's talk about that. What you're 3 saying is we need a control group of women who have 4 an implant that is appropriately working and not 5 causing pain, correct?</p> <p>6 A. I didn't say "appropriately working."</p> <p>7 Dr. Hill found some women who had stress 8 incontinence, or voiding dysfunction is what he 9 called them, and compared those removed meshes with 10 those of women with chronic pain.</p> <p>11 Q. Okay. Do you believe the Hill study is 12 authoritative?</p> <p>13 A. I don't believe any study's authoritative, 14 but it was a pretty good study done on 130 women, 15 70 who had one set of symptoms and 60 who had 16 another.</p> <p>17 Q. Okay. Hold on. You've cited the Hill 18 study, but you do not believe it is authoritative, 19 correct?</p> <p>20 A. I've cited the Hill study as a good study.</p> <p>21 Authoritative studies take -- or fluctuate in -- 22 in -- as our knowledge base increases.</p> <p>23 Q. Do you think the Hill study is a reliable 24 study?</p> <p>25 A. I believe it was a very good, reliable</p>

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<p>1 study.</p> <p>2 Q. Do you believe the Vervest study is a</p> <p>3 good, reliable study?</p> <p>4 A. I'm not -- I -- I realize I quoted it. I</p> <p>5 don't remember the study. May I look it up?</p> <p>6 Q. Sure. And just so you know, Doctor, I'm</p> <p>7 going to ask you about all the studies that you've</p> <p>8 got in your report. So you might want to look at</p> <p>9 each of them. And I'm going to ask you each the same</p> <p>10 question. Is each one of them a good, reliable</p> <p>11 study? You might as well look at them now.</p> <p>12 A. (Reviewing documents.) I can't find that</p> <p>13 Vervest study.</p> <p>14 Q. Are you getting close?</p> <p>15 A. I've looked through everything, but I</p> <p>16 can't find the Vervest study on -- on transections of</p> <p>17 nerve and TVTs.</p> <p>18 Q. Okay. Well, let's go through them one by</p> <p>19 one.</p> <p>20 A. All right.</p> <p>21 Q. We'll start with Vervest even though you</p> <p>22 don't have it. Or actually let's -- let's start</p> <p>23 with -- yeah, let's start with Vervest even though</p> <p>24 you don't have it.</p> <p>25 A. All right.</p>	<p>1 Q. Okay. The Elmer study, was that a good</p> <p>2 and reliable study?</p> <p>3 A. Histologic Inflammatory Response to</p> <p>4 Transvaginal Polypropylene Mesh for Pelvic</p> <p>5 Reconstruction, I did read it, and I did quote it in</p> <p>6 my paper, in my report. I thought it was useful.</p> <p>7 Q. Okay. The Benadavid report, was that good</p> <p>8 and reliable?</p> <p>9 A. The mesh-related syndrome, I read it. It</p> <p>10 gave some useful numbers. So it was a -- it was an</p> <p>11 observational study that I was able to find some</p> <p>12 useful data.</p> <p>13 Q. Okay. The Elmer study, was that a good</p> <p>14 and reliable study?</p> <p>15 A. I mean, I -- I'm not agreeing to any of</p> <p>16 these "goods," but I have the Elmer study right here.</p> <p>17 Hold on. I had it in my hand.</p> <p>18 Q. The title is "Histological Inflammatory</p> <p>19 Response to Transvaginal Polypropylene Mesh for</p> <p>20 Pelvic Reconstructive Surgery" --</p> <p>21 A. Oh, it's right here (indicating), yeah.</p> <p>22 Q. Got it?</p> <p>23 A. I've got it in my hand. I just -- that</p> <p>24 was a -- that was a useful study, yes, sir.</p> <p>25 Q. And then you got the Smith study. Was</p>
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<p>1 Q. Even though you don't have it in front of</p> <p>2 you, from what you remember, was Vervest a good and</p> <p>3 reliable study?</p> <p>4 A. I thought it had useful evidence in it,</p> <p>5 yes, sir.</p> <p>6 Q. Okay.</p> <p>7 A. I'm trying -- let me find my -- there it</p> <p>8 is, right on top (indicating). At least I can find</p> <p>9 my reference list. Okay.</p> <p>10 Q. Okay.</p> <p>11 A. All right.</p> <p>12 Q. Okay. So Vervest, good and reliable?</p> <p>13 A. It was a useful study with a useful piece</p> <p>14 of data.</p> <p>15 Q. Okay. Svenningsen, was that a good and</p> <p>16 reliable study?</p> <p>17 A. Risk Factors for Long-Term Failure of the</p> <p>18 Retropubic Tension-Free Vaginal Tape Procedure, I</p> <p>19 remember it. It gave some data looking for</p> <p>20 independent risk factors. Yes, sir, it was useful.</p> <p>21 Q. Okay. Was it good and reliable?</p> <p>22 A. I mean, I feel like the Pope saying</p> <p>23 something is good and reliable, sir. So I mean, it</p> <p>24 was useful scientific study that I read through, and</p> <p>25 it seemed reasonable.</p>	<p>1 that a good and reliable study for you?</p> <p>2 A. That was a -- it had useful information</p> <p>3 that I -- I considered --</p> <p>4 Q. Okay.</p> <p>5 A. -- in -- in writing up my report.</p> <p>6 Q. And then the Smith study, was that a</p> <p>7 useful, helpful, reliable study?</p> <p>8 MR. VOUDOURIS: Objection.</p> <p>9 THE WITNESS: I think you just asked about</p> <p>10 that, sir.</p> <p>11 BY MR. MONSOUR:</p> <p>12 Q. Oh, okay. Did I say Smith or Hill?</p> <p>13 A. Smith. You said Smith twice, sir.</p> <p>14 Q. Okay. So Smith you've answered. Hill,</p> <p>15 did you find that to be a good, useful study?</p> <p>16 A. I found it a useful study to provide</p> <p>17 interesting data.</p> <p>18 Q. Okay. Can you pull out the Hill study</p> <p>19 real quick?</p> <p>20 A. Yes, sir (Witness complies).</p> <p>21 Q. If you look under the conclusions on</p> <p>22 page 1, it says, "Vaginal Tissue Fibrosis." Do you</p> <p>23 see that?</p> <p>24 A. Yes, sir.</p> <p>25 Q. What is vaginal tissue fibrosis?</p>

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1	A. Scar.	1 pulled it up on a -- on a cell phone, if you
2	Q. Say that again?	2 want me to hand it to the Doctor.
3	A. Scar.	3 MR. MONSOUR: That might be hard to read
4	Q. Okay. In the Hill study, 90.8 percent of	4 or the court reporter probably has it on her
5	the excised specimens showed some inflammation,	5 iPad that we sent over to her. It might be
6	correct?	6 easier to read it on that.
7	A. That's my understanding, yes, sir.	7 MR. VOUDOURIS: That's fine. You want to
8	9.2 percent showed no inflammation.	8 take a -- just go off the record for 30 seconds
9	Q. And can inflammation cause pain?	9 for her to look?
10	A. That's an interesting question. Acutely,	10 MR. MONSOUR: Yeah, absolutely.
11	acute inflammation can -- can cause intense pain, but	11 VIDEOGRAPHER: Time is 4:23 p.m. We are
12	inflammation of a nerve quite often causes numbness	12 off the record.
13	because you wind up not only affecting the nerve,	13 (A recess transpired from 4:23 p.m. to
14	Schwann cells, but also the nerve fibers. So	14 4:24 p.m.)
15	typically, most inflammatory nerve diseases cause	15 VIDEOGRAPHER: We are back on the record.
16	numbness.	16 The time is 4:24 p.m.
17	Q. Do some inflammatory processes cause pain?	17 BY MR. MONSOUR:
18	A. Yes, abscesses do.	18 Q. Okay. Doctor, I guess on the iPad in
19	Q. Any others?	19 front of you, you have the Vervest study, correct?
20	A. Well, acute inflammation can cause pain.	20 A. Yes, sir.
21	Q. Okay. Can chronic inflammation cause	21 Q. And it's actually a case report of a
22	pain? Can it?	22 single incident that happened, right?
23	A. Can it? I suppose it can.	23 A. Yes, sir.
24	Q. Okay.	24 Q. So even though it's not -- there's no
25	A. That -- that was a useful hypothesis that	25 controls or anything like that, it's a case report
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1	was studied by the -- the Hill study, in fact.	1 that you picked out because you thought it could be
2	Dr. Hill thought it could. Proved it couldn't. But	2 helpful, right?
3	he thought it could.	3 A. Well, the title certainly was interesting.
4	Q. What prompted you to get involved in the	4 Q. Okay. But you thought it was helpful,
5	transvaginal mesh litigation?	5 right?
6	A. One of the pathologists here asked me my	6 A. That's correct. The -- the discussion was
7	opinion about a nerve -- a photograph and asked me if	7 useful and the results, that's correct.
8	that was painful.	8 Q. And just so I can understand this, your
9	Q. And who was that pathologist?	9 report here is -- it looks like the text of your
10	A. Dr. Stanley Robboy.	10 report is one, two, three -- like five pages? Five
11	Q. How do you spell that last name?	11 pages, right?
12	A. R-O-B-B-O-Y.	12 A. I suppose so, yes, sir.
13	Q. And then did he put you in touch with	13 Q. And you wrote your report, right?
14	Ethicon?	14 A. Yes, sir, of course.
15	A. No, sir. The next thing I know, I'm --	15 Q. And did you write all of it?
16	I'm -- I was contacted by I believe it was	16 A. Yes, sir.
17	Mr. Voudouris.	17 Q. And how did you select which articles you
18	Q. Okay. And does Dr. Robboy, does he have a	18 wanted to put in your report?
19	relationship with Johnson & Johnson?	19 A. I received a memory stick from a
20	A. Oh, I have no idea. He's one of our	20 Mr. Voudouris, and then I also went online and looked
21	retired pathologists who still is active on the	21 up some papers on my own, I believe. And I also
22	university side.	22 needed to reference some data -- I also looked at
23	Q. If you look at the -- well, you don't have	23 some data that was in some standard textbooks of
24	the Vervest study, correct?	24 neurology and -- and epidemiology.
25	MR. VOUDOURIS: Doug, actually, I just	25 Q. Okay. What type of data on neurology and

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<p>1 epidemiology were you needing to look at?</p> <p>2 A. I looked at --</p> <p>3 MR. VOUDOURIS: Objection. Go ahead.</p> <p>4 THE WITNESS: -- I looked up the Kandel</p> <p>5 and Schwartz book and -- in order to reference a</p> <p>6 standard text regarding pain fibers. And I also</p> <p>7 looked up the Midroni book coauthored by</p> <p>8 Dr. Juan Bilbao to see how -- to see a standard</p> <p>9 reference for anybody to look at about how to</p> <p>10 process nerve. Also discussed Renaut bodies, if</p> <p>11 somebody wanted to look up, that was a useful</p> <p>12 reference. And the epidemiology was -- study</p> <p>13 was -- the Ma book -- I mean, the Ma chapter was</p> <p>14 just talking about different scientific studies.</p> <p>15 BY MR. MONSOUR:</p> <p>16 Q. The -- the studies that are listed in your</p> <p>17 report on page 2, the Vervest, Svenningsen,</p> <p>18 Benadavid, Elmer, Smith and Hill, did -- did you come</p> <p>19 up with those studies, or did those come from</p> <p>20 Mr. Voudouris' memory stick?</p> <p>21 A. Oh, I don't remember exactly, sir.</p> <p>22 Q. Did any of them come from your own</p> <p>23 independent research?</p> <p>24 A. Well, it -- that was fairly easy to do</p> <p>25 because you just read the -- the papers and then go</p>	<p>1 nerves, it is doubtful that this type of complication</p> <p>2 can be avoided, i.e., by more lateral positioning of</p> <p>3 the TTV needle."</p> <p>4 Do you see that?</p> <p>5 A. I do.</p> <p>6 Q. And it says, "It is doubtful that this</p> <p>7 type of complication can be avoided."</p> <p>8 What type of complication is that?</p> <p>9 A. I believe he's referring to nerve section.</p> <p>10 Q. Referring to what?</p> <p>11 A. Nerve section.</p> <p>12 Q. And is nerve section another way of saying</p> <p>13 cutting of nerves?</p> <p>14 A. Yes, sir.</p> <p>15 Q. What is a neuroma?</p> <p>16 A. A neuroma, if -- can I just jump to</p> <p>17 traumatic neuroma?</p> <p>18 Q. Sure.</p> <p>19 A. A traumatic neuroma occurs when the nerve</p> <p>20 is attempting to regenerate, cannot find the distal</p> <p>21 end that it -- it was severed from.</p> <p>22 Q. Hello?</p> <p>23 A. Hello. I'm here. Can you hear me?</p> <p>24 Q. Something just happened.</p> <p>25 MR. VOUDOURIS: We can hear you.</p>
<p style="text-align: center;">Page 95</p> <p>1 into the bibliography and find an interesting article</p> <p>2 and -- and look it up on PubMed. Nowadays looking up</p> <p>3 papers is a -- is a process of about two minutes.</p> <p>4 Q. Okay. You did your searches on PubMed?</p> <p>5 A. Yes, sir.</p> <p>6 Q. Okay. If we look at the Vervest article,</p> <p>7 it says -- let me see -- it's talking about -- if you</p> <p>8 look on the last page of the article?</p> <p>9 A. Oh, here it is. Okay.</p> <p>10 Q. In the second to the last paragraph?</p> <p>11 MR. VOUDOURIS: Hold on. He has to get</p> <p>12 there.</p> <p>13 THE WITNESS: Second-to-last paragraph.</p> <p>14 Okay. I'm on page 667.</p> <p>15 BY MR. MONSOUR:</p> <p>16 Q. Okay. And in the last part of it, it</p> <p>17 says, "However, if no neurological damage or loss of</p> <p>18 neural innervation was found after surgery, it is</p> <p>19 likely that only small branches of this nerve were</p> <p>20 involved."</p> <p>21 Do you see that?</p> <p>22 A. I do.</p> <p>23 Q. And then it continues, "Due to the fact</p> <p>24 that probably only small branches were involved and</p> <p>25 due to anatomical variations in the course of these</p>	<p style="text-align: center;">Page 97</p> <p>1 BY MR. MONSOUR:</p> <p>2 Q. Okay. Now it's working.</p> <p>3 A. All right. I'm sorry. I probably twisted</p> <p>4 the receptor here.</p> <p>5 Q. Let's -- let's start that again. Let's</p> <p>6 start that again because I'm not for sure what you</p> <p>7 heard and what I heard. So let me ask you again,</p> <p>8 what is a neuroma?</p> <p>9 A. A traumatic neuroma is when a nerve is</p> <p>10 sectioned and, when in the process of sprouting and</p> <p>11 regenerating, attempts to find the distal canal that</p> <p>12 would take it back to its target organ, but instead</p> <p>13 of finding its targeted organ -- I mean, the canal,</p> <p>14 what it does is just grow in a circle. And you've</p> <p>15 got multiple nerves growing in a circle.</p> <p>16 Q. And what happens when a neuroma or a</p> <p>17 traumatic neuroma forms?</p> <p>18 A. Patients complain of itching. Some</p> <p>19 complain of pain, electrical-type pain. It forms a</p> <p>20 mass that is stimulated by pressure.</p> <p>21 Q. And basically what happened in this -- in</p> <p>22 this case was, as a result of or following the</p> <p>23 surgery, some traumatic neuromas formed, correct?</p> <p>24 A. I don't --</p> <p>25 MR. VOUDOURIS: Objection. In this case,</p>

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<p>1 what do you mean by that, Doug? I'm sorry. Are 2 you referring to the article?</p> <p>3 BY MR. MONSOUR:</p> <p>4 Q. Yeah, I mean in the -- in the Vervest 5 article. And I said "in this case" because the 6 Vervest article is simply a case report. It was only 7 one case. Hello?</p> <p>8 A. Hello. I was refamiliarizing myself with 9 the article.</p> <p>10 Q. Okay.</p> <p>11 A. It appears that they -- they put tape 12 through nervous tissue.</p> <p>13 Q. Okay. Can that cause pain?</p> <p>14 A. I don't know. It can -- it -- acutely, it 15 seemed reasonable it could cause pain. Chronic pain 16 syndrome, I don't know. In this particular case, she 17 complained of persistent pain.</p> <p>18 Q. Okay. If you look at the end of the 19 document in the last paragraph, it says, "Especially 20 when application of a local anesthetic alleviates the 21 pain, the possibility of an entrapment or damage to a 22 nerve should be considered."</p> <p>23 Do you see that?</p> <p>24 A. I do.</p> <p>25 Q. What does it mean when they're saying "an</p>	<p>1 to be added to the increasing list of potential 2 complications of this procedure."</p> <p>3 Do you see that?</p> <p>4 A. I see that.</p> <p>5 Q. Do you agree with that statement?</p> <p>6 A. I -- I agree that that is a hypothesis 7 that needs to be tested. That's correct.</p> <p>8 Q. Do you agree that it is something that the 9 doctors should be warned about?</p> <p>10 MR. VOUDOURIS: Objection. Beyond the 11 scope.</p> <p>12 THE WITNESS: I have -- I have not formed 13 an opinion. And I'm not going to be offering 14 testimony to that in trial.</p> <p>15 BY MR. MONSOUR:</p> <p>16 Q. Do you understand why I'm asking the 17 question, though? I mean, I'm simply reading the 18 article that I got from you, Doctor, and it says 19 that. That's why I'm asking the question.</p> <p>20 A. I see. And I noted that this was a rare 21 complication and I -- and that was my comment. My 22 my comment, as I put it in my report, was "Statements 23 related to pain pathogenesis fail to explain as the 24 pain is related to the mesh or to an unnoted 25 complication of the operative procedure." And this</p>
<p style="text-align: center;">Page 99</p> <p>1 entrapment"?</p> <p>2 MR. VOUDOURIS: Objection. Form.</p> <p>3 BY MR. MONSOUR:</p> <p>4 Q. Is that the neuroma?</p> <p>5 A. I don't know. I don't think it is. It 6 sounds like the nerve is entrapped in the tape some 7 way or another.</p> <p>8 Q. At the end, it says, "Post-TVT neuralgia 9 due to nerve entrapment or damage by the tape needs 10 to be added to the increasing list of potential 11 complications of this procedure."</p> <p>12 Do you see that?</p> <p>13 A. I see that.</p> <p>14 Q. What is "neuralgia due to nerve 15 entrapment"?</p> <p>16 A. It is an abnormal sensation related to 17 location. In other words, it's -- it's a feeling 18 that one gets that is foreign to that location. So 19 neuralgia can be a persistent sensation, let's call 20 it.</p> <p>21 Q. Would neuralgia in this situation, would 22 it be persistent pain?</p> <p>23 A. I believe she describes persistent pain so 24 I would accept that patient's characterization.</p> <p>25 Q. And then it says -- it says, "This needs</p>	<p style="text-align: center;">Page 101</p> <p>1 was an unnoted -- this was a complication of the 2 operative procedure, what Vervest described.</p> <p>3 Q. Okay. If you will pull out the Elmer 4 article, I would like to ask you a question about the 5 first paragraph.</p> <p>6 A. (Witness complies.) Yes, sir.</p> <p>7 Q. It says -- at the end of the first 8 paragraph, it says, "The unique vaginal micro 9 environment dynamics biochemical exchange and 10 immunological response prevent the inference of 11 results from other areas of biomaterial use such as 12 inguinal hernia surgery to the pelvic floor."</p> <p>13 Do you see that?</p> <p>14 A. Yes, sir.</p> <p>15 Q. Do you agree with that statement?</p> <p>16 MR. VOUDOURIS: Objection.</p> <p>17 THE WITNESS: I have no reason to argue 18 against it.</p> <p>19 BY MR. MONSOUR:</p> <p>20 Q. Okay. If you go back to the Hill article 21 and turn to the last page of it?</p> <p>22 A. Yes, sir.</p> <p>23 Q. Now, it says on the last paragraph, it 24 says, "Giant cell reaction also appears to be a 25 ubiquitous finding in excised vaginal mesh. And the</p>

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<p>1 vaginal tissue response to mid-urethral mesh is 2 histologically similar for fibrosis and giant cell 3 reaction in all patients."</p> <p>4 Do you see that?</p> <p>5 A. Yes, sir.</p> <p>6 Q. Is that a chronic condition?</p> <p>7 A. Yes, sir.</p> <p>8 Q. And then I would like to ask you, of -- of 9 these studies that you have quoted in your paper or 10 in your report, are they all observational?</p> <p>11 A. No, sir.</p> <p>12 Q. Is -- which one is not observational?</p> <p>13 A. The Hill study in particular is very 14 useful because it compares a known control with a 15 known abnormal group.</p> <p>16 Q. It was not a randomized control trial, 17 correct?</p> <p>18 A. It was not. It said it was -- the paper 19 itself says it was limited by its retrospective 20 nature.</p> <p>21 Q. Okay. Are the other studies that you 22 mentioned, are any of them observational?</p> <p>23 A. I'm quite sure a lot of them were, sir. I 24 mean, I can't pull them out right now. There are 25 several articles that I pulled out right now.</p>	<p>1 the sensitivity of a nerve receptor?</p> <p>2 MR. VOUDOURIS: Objection.</p> <p>3 THE WITNESS: It's my understanding that 4 there's not. At least on a -- on the periphery, 5 that's true.</p> <p>6 BY MR. MONSOUR:</p> <p>7 Q. Could you repeat that? You kind of cut 8 out for a second.</p> <p>9 A. Oh, I'm -- I said there's nothing that 10 increase the sensitivity of a peripheral nerve 11 receptor.</p> <p>12 Q. Okay. Does chronic inflammation have any 13 effect on a nerve receptor?</p> <p>14 MR. VOUDOURIS: Objection. Form.</p> <p>15 THE WITNESS: That's a study that was 16 addressed in the vaginal mucosa, the vaginal 17 micro environment and was said not to, by the 18 Hill study.</p> <p>19 BY MR. MONSOUR:</p> <p>20 Q. In your practice when you receive 21 specimens, do you look for pathological features to 22 explain the symptoms?</p> <p>23 A. In a limited scenario, you can do that, 24 yes, sir.</p> <p>25 Q. If you were attempting to determine -- if</p>
<p style="text-align: center;">Page 103</p> <p>1 Q. Okay. Can -- can you learn some good 2 information from observational studies?</p> <p>3 MR. VOUDOURIS: Objection. Form.</p> <p>4 THE WITNESS: You can learn some good 5 information from a observational study. It's 6 very much like a travel pamphlet describing 7 where things are and where to find things. 8 It's -- you can find useful information. It's 9 not scientific. It's more artistic, but it's -- 10 you can find information.</p> <p>11 BY MR. MONSOUR:</p> <p>12 Q. Okay. Have you ever looked at what the 13 rate of chronic pain is in patients that have been 14 implanted with TTV slings?</p> <p>15 A. I noticed in the Nature Reviews paper by 16 Dr. Blaivas, that it was about 2 percent.</p> <p>17 Q. Are pain receptors the only -- are pain 18 receptors the only ones that can signal pain, or can 19 others do it as well?</p> <p>20 A. The A delta and C fibers are your pain 21 fibers.</p> <p>22 Q. And those are the only ones?</p> <p>23 A. Those are the ones that are -- have been 24 scientifically proven to mediate pain.</p> <p>25 Q. Okay. Is there anything that can change</p>	<p style="text-align: center;">Page 105</p> <p>1 you were attempting to determine if an excised sling 2 that was reported to be causing pain, if it was 3 actually the source of the pain, what would you 4 specifically look for?</p> <p>5 A. In this particular case, since the cause 6 of pain is unknown, you would be looking for abnormal 7 nerve density, location, fibers like that and compare 8 it to normal, as that would be a localized testing of 9 a hypothesis. The problem is that's not always -- 10 and surprise me -- that's not always the cause of 11 pain in these women because they can have more 12 central causes of pain related that they truly 13 believe is related to that area of surgery.</p> <p>14 Q. If you receive a specimen from a surgeon 15 and it says "painful lesion," and you see a foreign 16 body type of reaction and some foreign particles, 17 would you make a diagnosis that the foreign body was 18 causing the pain?</p> <p>19 MR. VOUDOURIS: Objection.</p> <p>20 THE WITNESS: I would not. I would just 21 diagnose it as vaginal mucosa with scar, foreign 22 body giant -- and foreign body giant cell 23 reaction and anything else I noticed.</p> <p>24 BY MR. MONSOUR:</p> <p>25 Q. Is it a fair statement that in writing</p>

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<p>1 your report, you wouldn't put that the sling either 2 caused or did not cause the pain; is that true? 3 A. Well, it wouldn't be taken seriously by 4 the surgeons or the OB/GYNs. 5 Q. So you wouldn't write it in there either 6 way? 7 A. That's correct. 8 Q. Tissue needs to be innervative or 9 innervated to have pain, correct? 10 A. Yes, sir. 11 Q. If there are no nerves in tissue, it's not 12 going to feel pain, right? 13 A. That's correct. 14 Q. When you look at the slides that you see 15 from Dr. Iakovlev, do you agree that they show 16 inflammation? 17 A. There was very modest lymphocytic 18 infiltrates. Whether that's related normal to the 19 vaginal mucosa or whether that's inflammation, 20 it's -- it's not clear. The vaginal mucosa is 21 exposed to the environment and has its own immune 22 system. 23 Q. Which area has a higher level of 24 innervation, the vagina or the anterior abdominal 25 wall?</p>	<p>1 Tape Number 3 in the deposition of Roger 2 McLendon, M.D. 3 Please continue. 4 COURT REPORTER: We have the hard copy 5 exhibits now, Mr. Monsour. 6 MR. MONSOUR: Okay, great. Thank you. 7 BY MR. MONSOUR: 8 Q. Dr. McLendon, we had a short break. Are 9 you ready to proceed? 10 A. Yes, sir. 11 Q. Okay. You have read the entirety of 12 Dr. Iakovlev's report, correct? 13 A. Yes, sir. 14 Q. With regard to pain generation by the TVT, 15 is it possible that Dr. Iakovlev is right? 16 MR. VOUDOURIS: Objection. Form. 17 THE WITNESS: It -- is it po- -- is it 18 possible is not a very scientific question. I 19 mean, is it -- 20 BY MR. MONSOUR: 21 Q. That's why the lawyer asking it. 22 A. Yes, sir. 23 MR. VOUDOURIS: That's why I objected to 24 form. 25 THE WITNESS: I appreciate that. It's --</p>
<p style="text-align: center;">Page 107</p> <p>1 A. The -- the level of innervation of the 2 vagina is quite minimal because of the stretching it 3 has to go through in -- in childbirth. If it had a 4 large number of pain fibers, the -- the pain of 5 childbirth would be unbearable. But as far as the 6 number of abdominal nerves versus vaginal nerves, I 7 don't know. 8 MR. MONSOUR: Okay. Why don't we take a 9 break. Let me go through some of my notes and 10 see some other things. I might be able to kind 11 of cut some of this short. So let's take a 12 15-minute break and regroup. Does that sound 13 okay? 14 VIDEOGRAPHER: We only have about seven 15 minutes remaining so I'll end this tape. 16 MR. MONSOUR: Yeah, go ahead and end the 17 tape. 18 VIDEOGRAPHER: This is the end of 19 Videotape Number 2 in the deposition of Roger 20 McLendon, M.D. The time is 4:49 p.m. We are 21 off the record. 22 (A recess transpired from 4:49 p.m. until 23 5:05 p.m.) 24 VIDEOGRAPHER: We are back on the record. 25 The time is 5:05 p.m. This is the beginning of</p>	<p style="text-align: center;">Page 109</p> <p>1 it's not possible using the stains that he has 2 used in this particular instance. 3 BY MR. MONSOUR: 4 Q. Is it not even -- not looking at the 5 stain, but just the theory of what is causing what, 6 is it possible that Dr. Iakovlev is correct? 7 MR. VOUDOURIS: Objection. Form. 8 THE WITNESS: I mean, it's -- we have a 9 saying where I grew up about a blind hog finding 10 an ear of corn. Is it possible that he can -- 11 that he has -- he has completely ignored a large 12 part of the pain literature concerning causes of 13 chronic pain -- chronic post-surgical pain 14 syndromes. I don't know how to answer, is it 15 possible when he has shown no evidence that he 16 knows what he's looking for. 17 BY MR. MONSOUR: 18 Q. Okay. I'll ask my question again, though. 19 Is it possible that Dr. Iakovlev is correct? 20 MR. VOUDOURIS: Objection. Asked and 21 answered. 22 MR. MONSOUR: I think it's a simple 23 question and it's just a simple answer. 24 MR. VOUDOURIS: Objection. 25 THE WITNESS: It -- it's unlikely that he</p>

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<p>1 knows what he's talking about.</p> <p>2 BY MR. MONSOUR:</p> <p>3 Q. Okay. Let me ask my question again for a</p> <p>4 fourth time. Is it possible that Dr. Iakovlev is</p> <p>5 correct? Yes or no?</p> <p>6 MR. VOUDOURIS: Objection. Form.</p> <p>7 THE WITNESS: Let me try a different way.</p> <p>8 He's -- he's generated an interesting hypothesis</p> <p>9 that needs testing that he has yet to test. As</p> <p>10 far as base -- the scientific basis for his</p> <p>11 understanding, it's impossible that he has found</p> <p>12 the answer to this problem.</p> <p>13 BY MR. MONSOUR:</p> <p>14 Q. Is it possible that Dr. Iakovlev is</p> <p>15 correct?</p> <p>16 MR. VOUDOURIS: Objection. Asked and</p> <p>17 answered.</p> <p>18 BY MR. MONSOUR:</p> <p>19 Q. Yes or no?</p> <p>20 A. It is impossible for him to make the</p> <p>21 conclusions he has made based on his evidence.</p> <p>22 Q. You're -- you're talking about proving</p> <p>23 it. I'm just asking you, is it possible that he is</p> <p>24 right and he just needs to do more to establish it?</p> <p>25 MR. VOUDOURIS: Objection. Form. Asked</p>	<p>1 Hill study, correct?</p> <p>2 MR. VOUDOURIS: Objection.</p> <p>3 THE WITNESS: The Hill study is a very</p> <p>4 good paper, but there are other papers that also</p> <p>5 talk about the drop in inflammatory cells in the</p> <p>6 vaginal mucosa after the implantation of these</p> <p>7 meshes so -- they do pre-op and post-op vaginal</p> <p>8 biopsies. They implant the -- they do pre-op</p> <p>9 biopsies. They implant the mucosa -- the TVT,</p> <p>10 and then they do a post-op and find that</p> <p>11 inflammation actually decreases. Everything</p> <p>12 he -- he hypothesizes is proven wrong.</p> <p>13 BY MR. MONSOUR:</p> <p>14 Q. You stated earlier when we started talking</p> <p>15 on the subject, that Dr. Iakovlev has ignored some of</p> <p>16 the science. Can you specifically tell me what</p> <p>17 Dr. Iakovlev has ignored, and I'll take it at least</p> <p>18 one of the things you believe he has ignored is the</p> <p>19 Hill paper, correct?</p> <p>20 A. That's correct. The --</p> <p>21 Q. What else has he ignored?</p> <p>22 A. The other things is the non-local injury</p> <p>23 theories related to chronic persistent post-surgical</p> <p>24 pain that is unrelated to local site damage that is a</p> <p>25 central nervous system, more dorsal root ganglion,</p>
<p style="text-align: center;">Page 111</p> <p>1 and answered.</p> <p>2 THE WITNESS: I think he's looking up the</p> <p>3 wrong tree.</p> <p>4 BY MR. MONSOUR:</p> <p>5 Q. And I'm going to go back to my question.</p> <p>6 Is it possible he is correct?</p> <p>7 MR. VOUDOURIS: Objection. Form. Asked</p> <p>8 and answered.</p> <p>9 THE WITNESS: All right. So -- all right.</p> <p>10 Let me -- let me just take it through. The</p> <p>11 science says that it is not possible that</p> <p>12 scarring, vaginal tissue correlates with pain.</p> <p>13 That's the Hill study. The Hill study also</p> <p>14 indicates that it's not possible that chronic</p> <p>15 inflammation is associated with pain.</p> <p>16 So now we're left with these pain fibers</p> <p>17 that aren't generating any pain so -- in</p> <p>18 relation to his other two hypotheses. I mean,</p> <p>19 he's generated hypotheses that are being</p> <p>20 disproven as fast as he can generate them. I</p> <p>21 think it is more likely than not that he is</p> <p>22 not -- it is not going to find the answer he is</p> <p>23 hypothesizing.</p> <p>24 BY MR. MONSOUR:</p> <p>25 Q. Okay. And that's primarily based upon the</p>	<p style="text-align: center;">Page 113</p> <p>1 the other things we've talked about.</p> <p>2 Q. Where would I find that literature so I</p> <p>3 can go read it?</p> <p>4 A. It would be on chronic persistent pain.</p> <p>5 Q. Look for chronic persistent pain?</p> <p>6 A. I believe so.</p> <p>7 Q. And who is the most knowledgeable author</p> <p>8 on chronic persistent pain? What's -- who's the best</p> <p>9 person that I should consult with on that?</p> <p>10 MR. VOUDOURIS: Objection. Form,</p> <p>11 compound.</p> <p>12 THE WITNESS: Number one, this is not my</p> <p>13 area of expertise. Number two, the most common</p> <p>14 author has a foreign name that I can't spell,</p> <p>15 much less pronounce. I'll be glad to provide --</p> <p>16 BY MR. MONSOUR:</p> <p>17 Q. Chronic persistent pain?</p> <p>18 A. Chronic post-surgical pain, chronic</p> <p>19 persistent pain. This -- this is an area that --</p> <p>20 that was a -- a single sentence in my -- in my report</p> <p>21 that said that there are patients who have unknown</p> <p>22 causes of chronic persistent post-surgical pain, and</p> <p>23 other reasons for post-surgical pain. And we've</p> <p>24 spent a large part -- a large part of this deposition</p> <p>25 on a single phrase in my dep- -- in my report.</p>

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<p>1 Q. Does that bother you?</p> <p>2 A. Not at all, sir. But it's not something</p> <p>3 that I have my expertise in. My expertise is in</p> <p>4 neuropathology and neuroanatomy.</p> <p>5 Q. Okay. Is there a certain textbook I</p> <p>6 should get for chronic persistent pain?</p> <p>7 A. I'm not sure. I'm not aware of one.</p> <p>8 Q. Okay. But what you're saying is that</p> <p>9 you -- that Dr. Iakovlev has ignored the chronic</p> <p>10 persistent pain literature and you don't know what I</p> <p>11 should go look at to go -- to go look at that</p> <p>12 subject, right?</p> <p>13 A. That -- that's correct.</p> <p>14 Q. And is it a fair statement to say that</p> <p>15 with regard to post-surgical chronic pain, you do not</p> <p>16 know how that is caused?</p> <p>17 MR. VOUDOURIS: Objection.</p> <p>18 THE WITNESS: That is a -- as I have said</p> <p>19 several times, that is an area of active</p> <p>20 research because drug companies would dearly</p> <p>21 love to be able to help patients who have</p> <p>22 chronic persistent pain, chronic post-surgical</p> <p>23 pain.</p> <p>24 BY MR. MONSOUR:</p> <p>25 Q. If I asked you a question -- if I asked</p>	<p>1 BY MR. MONSOUR:</p> <p>2 Q. What have you done to determine the cause</p> <p>3 of pain or chronic pain in women with transvaginal or</p> <p>4 TVT implants?</p> <p>5 A. What have I done actively? I have no</p> <p>6 active research program in this area.</p> <p>7 Q. Do you plan to do one?</p> <p>8 A. I do not. Excuse me. I do not at this</p> <p>9 time.</p> <p>10 Q. Other than the Hill article and the topic</p> <p>11 or research involving the topic of chronic persistent</p> <p>12 pain, has Dr. Iakovlev missed anything else?</p> <p>13 MR. VOUDOURIS: Objection. Broad.</p> <p>14 THE WITNESS: Repeat the question?</p> <p>15 BY MR. MONSOUR:</p> <p>16 Q. Other than the Hill -- you said earlier</p> <p>17 that Dr. Iakovlev had ignored some science, right?</p> <p>18 A. Yes, sir.</p> <p>19 Q. And one of the things you said he ignored</p> <p>20 was the Hill article, correct?</p> <p>21 A. That's correct.</p> <p>22 Q. And one of the things that you also said</p> <p>23 he ignored was literature involving chronic</p> <p>24 persistent pain, correct?</p> <p>25 A. That's correct.</p>
<p style="text-align: center;">Page 115</p> <p>1 you, if I said, what is the cause of chronic pain</p> <p>2 following surgery, your answer to me would be "I</p> <p>3 don't know," correct?</p> <p>4 A. That's correct. There are a number of</p> <p>5 hypotheses.</p> <p>6 Q. One of the people that is actually</p> <p>7 attempting to investigate pain following the</p> <p>8 implantation of transvaginal mesh is Dr. Iakovlev,</p> <p>9 correct?</p> <p>10 MR. VOUDOURIS: Objection.</p> <p>11 THE WITNESS: Dr. Iakovlev is collecting</p> <p>12 cases and examining them and making</p> <p>13 observational reports based on what he's found,</p> <p>14 generating hypotheses with no experimental</p> <p>15 evidence to prove or disprove, no plans for</p> <p>16 experimental evidence that I can tell that he</p> <p>17 has reported about what needs to be done next.</p> <p>18 BY MR. MONSOUR:</p> <p>19 Q. Right. But he's actually looking into</p> <p>20 this issue, unlike you, correct?</p> <p>21 MR. VOUDOURIS: Objection.</p> <p>22 THE WITNESS: He seems to be actively</p> <p>23 collecting cases and looking at -- at, and doing</p> <p>24 observational studies on these vaginal biopsies.</p>	<p style="text-align: center;">Page 117</p> <p>1 Q. Is there anything else that he's ignored</p> <p>2 that -- that you can identify?</p> <p>3 A. Well, I'm not aware that he has quoted the</p> <p>4 Elmer paper that we discussed about the drop in</p> <p>5 inflammatory cell infiltrates in the vagina pre- and</p> <p>6 post-biopsy. I'm not at all aware that he's looked</p> <p>7 at any other studies. But there are not that many</p> <p>8 active studies right now on this -- on chronic</p> <p>9 persistent pain in these TVT patients.</p> <p>10 Q. Do you believe you've ignored any of the</p> <p>11 published finds that would be pertinent?</p> <p>12 MR. VOUDOURIS: Objection.</p> <p>13 THE WITNESS: Have I ignored it? No.</p> <p>14 BY MR. MONSOUR:</p> <p>15 Q. Do you believe that the Hill article has</p> <p>16 any limitations?</p> <p>17 A. It's a -- it states that it's got -- it is</p> <p>18 limited by its retrospective nature.</p> <p>19 Q. Is there anything else that it's limited</p> <p>20 by?</p> <p>21 A. They didn't look for nerve endings. That</p> <p>22 would have been useful, wouldn't it?</p> <p>23 Q. In the Hill article, when were the samples</p> <p>24 collected with regard to the timing from the date of</p> <p>25 surgery?</p>

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<p>1 A. If they were pathology studies, they would 2 have been collected on the day of surgery. 3 Q. Of implantation surgery or on removal 4 surgery? 5 A. Ahh. Removal surgery. 6 Q. All right. Does the timing of the 7 inflammation related to implant, does that have any 8 bearing upon what's -- upon the results? 9 A. The variable -- the variable they looked 10 at was its relationship to pain. So if the lady's 11 had chronic persistent pain, chronic post-surgical 12 pain, then that had a lot to do -- if -- if the 13 hypothesis, which it was, that inflammation was 14 related to the pain that they were experiencing and 15 the studies reveal that -- that chronic inflammation 16 was not correlated with pain, that was a useful 17 conclusion and a useful study with a hypothesis, data 18 collection, experiments and data analysis and a 19 conclusion. 20 Q. Well, if we look back at the Hill study, 21 sir, and if you look on page 594 of the Hill study, 22 left-handed column, bottom of the page. Do you have 23 it? 24 A. Yes, sir. 25 Q. Says, "Subjects with voiding dysfunction</p>	<p>1 about how -- how this is a limiting factor of their 2 study? 3 A. "As a result, mesh specimens from these 4 subjects should be expected to have higher degrees of 5 inflammation compared to others as the healing 6 process from the placement of the original implant 7 would still be present." That -- that's a quote 8 right out of their paper, the next line, in fact. 9 Q. But if you look at the last page, on 595, 10 it says, it's talking about in the last -- the last 11 column on the left-hand page, it says, "We did not 12 have access to all of the index surgery operative 13 reports, and therefore we relied on subject recall 14 documented in the electronic medical record for some 15 of our data. This limited our ability to analyze 16 potential risk factors that may have led to increased 17 levels of inflammation. These include the date of 18 the index mesh placement, type of mesh utilized and 19 the surgical approach." Correct? 20 A. That's right. It's not a perfect study. 21 But it's still got very useful data. 22 Q. Okay. In your report starting on page 14 23 or starting on -- I'm sorry, paragraph 14 that you've 24 noted, you're talking about Figure set 3, you say, 25 "There is no demonstrated presence of nerve</p>
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<p>1 but not pain or mesh exposure were found to have more 2 inflammation than subjects who underwent mesh 3 excision for pain and/or mesh erosion and those with 4 both voiding dysfunction and pain mesh exposure. 5 This difference may be related to timing of mesh 6 excision in patients with only voiding dysfunction. 7 Voiding dysfunction is usually diagnosed in the 8 immediate post-operative period and is attributed to 9 mid-urethral sling placement. Mesh excision often 10 occurs sooner in these patients than in those who 11 present with pain and/or exposure." 12 Did I read that correctly? 13 A. You did. 14 Q. So basically what that talks about is, 15 that's a limitation on this subject because of the 16 timing after surgery where the explant took place, 17 correct? 18 A. Oh, no, you -- you're exactly -- you've 19 got your facts exactly opposite. What the most 20 inflammation is -- is after -- within the days and 21 weeks after surgery. So you would have expected to 22 see more inflammation after surgery, and as the scar 23 healed, you would have expected to see inflammation 24 decrease. 25 Q. Isn't -- don't the authors themselves talk</p>	<p>1 receptors." Correct? 2 A. That's correct. 3 Q. There could potentially be nerve receptors 4 in that slide. They just weren't stained in the way 5 that you would have done to find them, correct? 6 MR. VOUDOURIS: Objection. Form. 7 THE WITNESS: There were no receptors 8 found in a way that was scientifically 9 acceptable way to stain for them and to look for 10 them. 11 BY MR. MONSOUR: 12 Q. Right. I -- I hear you. But what I'm 13 saying is, it's possible that there's nerve receptors 14 in there, but what you're saying is, he just didn't 15 stain them the right way to show us that, right? 16 A. And as I've -- 17 MR. VOUDOURIS: Objection. Form. Go 18 ahead. 19 THE WITNESS: And as I have said, I have 20 no problem with there being nerve receptors 21 throughout this tissue. It needs to be studied, 22 it needs to be quantified, it needs to be 23 measured, and it needs to be compared with 24 not -- pain-free women.</p>

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1 BY MR. MONSOUR: 2 Q. Okay. So you do believe there would 3 probably be nerve receptors in these tissues, 4 correct? 5 MR. VOUDOURIS: Objection. Form. 6 THE WITNESS: I feel that there will be 7 nerve receptors. 8 BY MR. MONSOUR: 9 Q. Okay. But what your primary criticism is, 10 we need to look at those nerve receptors in women 11 that don't have pain versus women that do have pain 12 and see if there are differences that might explain 13 it, right? 14 MR. VOUDOURIS: Objection. Form. 15 THE WITNESS: My primary issue with 16 Dr. Iakovlev's report is he has not used the 17 scientific method in evaluating these cases. 18 BY MR. MONSOUR: 19 Q. Okay. And how has he failed in utilizing 20 the scientific method? 21 A. The scientific method is not only to make 22 observations, which he has done, and generated 23 hypotheses, which he has done, it is then to take the 24 next step. The scientific method includes designing 25 experiments, then collecting your data from these	1 (Signature reserved.) 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
1 experiments, analyzing the data and drawing 2 conclusions from that. What he has provided are 3 nice, observational studies that generate useful 4 hypotheses but do not approach a scientific study. 5 There's no evidence of the scientific method in his 6 work. 7 MR. MONSOUR: All right. Dr. McLendon, 8 that's all the questions that I have. I will 9 pass the witness. 10 MR. VOUDOURIS: Dr. McLendon, the court 11 reporter is going to type this up for you. You 12 have the right to read it or waive signature. I 13 suggest that you read it, but you have to tell 14 her that. 15 THE WITNESS: I like to read. 16 VIDEOGRAPHER: Anything further? 17 MR. MONSOUR: Nothing for me. Anything 18 you guys have? 19 MR. VOUDOURIS: No. 20 VIDEOGRAPHER: This is the end of 21 Videotape Number 3 and concludes the deposition 22 of Roger McLendon, M.D. The time is 5:27 p.m. 23 We are off the record. 24 (The deposition was concluded 25 at 5:27 p.m.)	1 STATE OF NORTH CAROLINA 2 COUNTY OF MECKLENBURG 3 4 I, Karen K. Kidwell, RMR, CRR, CLR, in and 5 for the State of North Carolina, do hereby certify that 6 there came before me on Tuesday, September 29, 2015, 7 ROGER McLENDON, M.D., who was by me duly sworn to 8 testify to the truth and nothing but the truth of his 9 knowledge concerning the matters in controversy in this 10 cause; that the witness was thereupon examined under 11 oath, the examination reduced to typewriting under my 12 direction, and the deposition is a true record of the 13 testimony given by the witness. 14 I further certify that I am neither attorney 15 or counsel for, nor related to or employed by, any 16 attorney or counsel employed by the parties hereto or 17 financially interested in the action. 18 This the 30th day of September, 2015. 19 20 21 22 23 24 25

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<p style="text-align: right;">Page 126</p> <p>1 INSTRUCTIONS TO WITNESS</p> <p>2</p> <p>3 Please read your deposition</p> <p>4 over carefully and make any necessary</p> <p>5 corrections. You should state the reason</p> <p>6 in the appropriate space on the errata</p> <p>7 sheet for any corrections that are made.</p> <p>8 After doing so, please sign</p> <p>9 the errata sheet and date it. It will be</p> <p>10 attached to your deposition.</p> <p>11 It is imperative that you</p> <p>12 return the original errata sheet to the</p> <p>13 deposing attorney within thirty (30) days</p> <p>14 of receipt of the deposition transcript</p> <p>15 by you. If you fail to do so, the</p> <p>16 deposition transcript may be deemed to be</p> <p>17 accurate and may be used in court.</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 128</p> <p>1 ACKNOWLEDGMENT OF DEPONENT</p> <p>2</p> <p>3 I, _____, do</p> <p>4 hereby certify that I have read the</p> <p>5 foregoing pages, and that the same</p> <p>6 is a correct transcription of the answers</p> <p>7 given by me to the questions therein</p> <p>8 propounded, except for the corrections or</p> <p>9 changes in form or substance, if any,</p> <p>10 noted in the attached Errata Sheet.</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15 Subscribed and sworn</p> <p>16 to before me this</p> <p>17 ____ day of _____, 20____.</p> <p>18 My commission expires: _____</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>
<p style="text-align: right;">Page 127</p> <p>1 -----</p> <p>2 ERRATA</p> <p>3 -----</p> <p>4 PAGE LINE CHANGE</p> <p>5 _____ REASON: _____</p> <p>6 _____ REASON: _____</p> <p>7 _____ REASON: _____</p> <p>8 _____ REASON: _____</p> <p>9 _____ REASON: _____</p> <p>10 _____ REASON: _____</p> <p>11 _____ REASON: _____</p> <p>12 _____ REASON: _____</p> <p>13 _____ REASON: _____</p> <p>14 _____ REASON: _____</p> <p>15 _____ REASON: _____</p> <p>16 _____ REASON: _____</p> <p>17 _____ REASON: _____</p> <p>18 _____ REASON: _____</p> <p>19 _____ REASON: _____</p> <p>20 _____ REASON: _____</p> <p>21 _____ REASON: _____</p> <p>22 _____ REASON: _____</p> <p>23 _____ REASON: _____</p> <p>24 _____ REASON: _____</p> <p>25 _____ REASON: _____</p>	<p style="text-align: right;">Page 129</p> <p>1 LAWYER'S NOTES</p> <p>2 PAGE LINE</p> <p>3 _____ 4 _____ 5 _____ 6 _____ 7 _____ 8 _____ 9 _____ 10 _____ 11 _____ 12 _____ 13 _____ 14 _____ 15 _____ 16 _____ 17 _____ 18 _____ 19 _____ 20 _____ 21 _____ 22 _____ 23 _____ 24 _____ 25 _____</p>

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